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Binding Energy and Wave Function of H^3 and He^3. Non-existence of the Tri-neutron and Excited States of H^3—A. M. Badalyan, E. S. Gal'pern, and V. N. Lyakhovitskiĭ. 8, 180 (1969) [8, 313 (1969)]

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BAĬER, V. N.
Double Bremsstrahlung in Electron-electron Collisions; the Hard End of the Spectrum—V. N. Baĭer, V. M. Galitskiĭ, V. S. Fadin and V. A. Khoze. 8, 681 (1969) [8, 1174 (1969)]

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BEGZHANOV, R. B.
Spectroscopy of the Nucleus In^{117}-R. B. Begzhanov, M. Kh. Khodzhaev, and Sh. Sh. Shapirov. 8, 142 (1969) [8, 247 (1969)]

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Radiative Corrections to the Decays $\Lambda \to N\pi$ and $K^0_2 \to \pi^+\pi^-$—A. A. Belavin and I. M. Narodetsky. 8, 568 (1969) [8, 978 (1969)]

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Investigation of Excited Ca^{140} States Above 2.5 MeV by Means of Pair Conversion Electrons—B. N. Belyaev, S. S. Vasilenko and V. S. Gvozdev. 8, 135 (1969) [8, 235 (1969)]

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BEREZHNOĬ, Yu. A.
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The Decays $A_1 \to \pi\gamma$ and $\pi \to e\nu\gamma$ and Current Algebra—V. S. Berezinskiĭ. 8, 700 (1969) [8, 1208 (1969)]

BIRGER, N. G.
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Isotope Masses and Nuclear Binding Energies in the Region from Cs to Eu—R. A. Demirkhanov, V. V. Dorokhov, and M. I. Dzkuya. 8, 147, (1969) [8, 255 (1969)]

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Peripheral Model of the Direct Nuclear Reactions—I. Borbeĭ, É. I. Dolinskiĭ, and V. V. Turovtsev. 8, 287 (1969) [8, 492 (1969)]

DOMOGATSKIĬ, G. V.
Estimated Upper Bound of Different Hypothetical Electron-proton Interactions, Based on the Energy Balance of the Sun—G. V. Domogatskiĭ. 8, 442 (1969) [8, 759 (1969)]

DOROKHOV, V. V.
Isotope Masses and Nuclear Binding Energies in the Region from Cs to Eu—R. A. Demirkhanov, V. V. Dorokhov, and M. I. Dzkuya. 8, 147, (1969) [8, 255 (1969)]

DREMIN, I. M.
Large Angle Particle Scattering at High Energies—I. V. Andreev and I. M. Dremin. 8, 473 (1969) [8, 814 (1969)]

DRUIN, V. A.
Properties of the Isotopes $Ra^{214-206}$—Yu. V. Labanov and V. A. Druin. 8, 493 (1969) [8, 849 (1969)]

DUBOVIKOV, M. S.
Interference Phenomena in $X \to \pi\rho$ Decays and Determination of Quantum Numbers of the A_2 Meson—M. S. Dubovikov and I. M. Narodetskiĭ. 8, 716 (1969) [8, 1236 (1969)]

DVORETSKIĬ, V. N.
Spectra of γ Rays Produced Upon Capture of Thermal Neutrons by Nd Isotopes—L. V. Groshev, V. N. Dvoretskiĭ, A. M. Demidov, and A. S. Rakhimov. 8, 619 (1969) [8, 1067 (1969)]

D'YACHENKO, P. P.
Energy and Mass Distribution of Fragments from Fission of U^{235} by Monoenergetic Neutrons from 0 to 15.5 MeV—P. P. D'yachenko, B. D. Kuz'minov, and M. Z. Tarasko. 8, 165 (1969) [8, 286 (1969)]

DZHIBUTI, P. I.
On the Theory of the Photonuclear Reaction Leading to the Emission of a Nucleon Pair—P. I. Dzhibuti. 8, 519 (1969) [8, 892 (1969)]

DZKUYA, M. I.
Isotope Masses and Nuclear Binding Energies in the Region from Cs to Eu—R. A. Demirkhanov, V. V. Dorokhov, and M. I. Dzkuya. 8, 147, (1969) [8, 255 (1969)]

GESHKENBEĬN, B. V.
On the Verification of the Linearity of the Equations of Quantum Electrodynamics in Some High Energy Experiments—B. V. Geshkenbeĭn and M. V. Terent'ev. 8, 67 (1969) [8, 119 (1969)]
The Process $e^+e^- \to 3\gamma$ at High Energies—B. V. Geshkenbeĭn and M. V. Terent'ev. 8, 321 (1969) [8, 550 (1969)]

GERSHTEĬN, S. S.
On the Search for Heavy Leptons—S. S. Gershteĭn and V. N. Folomeshkin. 8, 447 (1969) [8, 768 (1969)]

GALITSKIĬ, V. M.
Double Bremsstrahlung in Electron-electron Collisions; the Hard End of the Spectrum—V. N. Baĭer, V. M. Galitskiĭ, V. S. Fadin and V. A. Khoze. 8, 681 (1969) [8, 1174 (1969)]

GAL'PERN, E. S.
Binding Energy and Wave Function of H^3 and He^3. Non-existence of the Tri-neutron and Excited States of H^3—A. M. Badalyan, E. S. Gal'pern, and V. N. Lyakhovitskiĭ. 8, 180 (1969) [8, 313 (1969)]

GANGRSKIĬ, Yu. P.
Investigation of (d, p) and (d, t) Reactions Leading to Spontaneously Fissile Isomeric States—S. Bjornholm, I. Borggreen, Yu. P. Gangrskiĭ, and G. Sletten. 8, 267 (1969) [8, 459 (1969)]

GAREEV, F. A.
N-forbidden β Transitions in Deformed Nuclei in the Approximation of a Finite Potential with Diffuse Edge—F. A. Gareev, B. N. Kalinkin, N. I. Pyatov, and M. I. Cherneĭ. 8, 176 (1969) [8, 305 (1969)]

GEIDT, V. V.
Estimates of $K \to \pi e^+e^-$ Decay Probabilities—V. V. Geidt and I. B. Khriplovich. 8, 558 (1969) [8, 960 (1969)]

GERASIMOV, S. B.
Vector Dominance Model and Sum Rule for γp Interaction at High Energies—S. B. Gerasimov and V. A. Serdyutskiĭ. 8, 323 (1969) [8, 554 (1969)]

EROZOLIMSKIĬ, B. G.
Search for the Violation of Time Reversal Invariance in Beta Decay of Polarized Neutrons—B. G. Erozolimskiĭ, L. I. Bondarenko, Yu. A. Mostovoĭ, B. A. Obinyakov, V. I. Zakharova, and V. A. Titov. 8, 98 (1969) [8, 176 (1969)]

EVLANOV, M. V.
The Effect of Deuteron Structure on Inelastic Diffraction Scattering—Yu. A. Berezhnoĭ and M. V. Evlanov. 8, 669 (1969) [8, 1151 (1969)]

EVSEEV, V. S.
Residual Polarization of Negative Muons in Water at Different Temperatures and in Hydrocarbons—V. S. Evseev, V. S. Roganov, V. A. Chernogorova, G. G. Myasishcheva, and Yu. V. Obukhov. 8, 431 (1969) [8, 741 (1969)]

EZHELA, V. V.
Dispersion Sum Rules for Pion-baryon Backward Scattering —G. G. Volkov, V. V. Ezhela and V. S. Zamiralov. 8, 593 (1969) [8, 1020 (1969)]

FADIN, V. S.
Double Bremsstrahlung in Electron-electron Collisions; the Hard End of the Spectrum—V. N. Baĭer, V. M. Galitskiĭ, V. S. Fadin and V. A. Khoze. 8, 681 (1969) [8, 1174 (1969)]

FEDOROV, V. B.
Cross Section for Backward Elastic pd Scattering in the Energy Region 1-3.5 BeV—Yu. D. Bayukov, N. G. Birger, V. S. Borisov, G. K. Bysheva, L. S. Vorob'ev, L. L. Gol'din, L. N. Kondrat'ev, M. M. Korotkov, G. A. Leskin, Z. S. Sidorenko, L. I. Sokolov, G. K. Tumanov, V. B. Fedorov, and V. D. Khovanskiĭ. 8, 199 (1969) [8, 348 (1969)]

FILIMONOV, V. A.
Structure of the Weak Interaction $\Lambda + N \to N + N$ and SU (6) Symmetry—V. A. Filimonov and B. P. Nikiforov. 8, 40 (1969) [8, 71 (1969)]

FILIPPOV, A. T.
CP Violation in Weak Radiative Decays—A. T. Filippov. 8, 111 (1969) [8, 197 (1969)]

FILIPPOV, A. T.
On Analytic Continuation in the Coupling Constant in a Model of a Nonrenormalizable Field Theory—B. A. Arbuzov, N. M. Atakishiev, and A. T. Filippov. 8, 222, (1969) [8, 385 (1969)]

FIL'KOV, L. V.
$\pi\pi$ Interaction in States with I = 2—L. V. Fil'kov. 8, 84 (1969) [8, 149 (1969)]

FILLER, F. M.
Search for Baryon NKπ Resonance with Strangeness S = +1 in the Reaction $\pi^- p \to NK\bar{K}\pi$ at an Incident π^--Meson Momentum of 3.25 BeV/c—V. V. Vladimirskiĭ, V. K. Grigor'ev, A. P. Grishin, I. A. Erofeev, L. V. Il'kov, G. D. Tikhomirov, K. A. Trostina, and F. M. Filler. 8, 190 (1969) [8, 331 (1969)]

FINOCCHIARO, G.
Verification of C-invariance in Strong and Electromagnetic Interactions of Elementary Particles—G. Finocchiaro. 8, 105 (1969) [8, 188 (1969)]

FLEROV, G. N.
Fragment-mass Distribution from Heavy-ion Fission of Bismuth and Uranium—S. A. Karamyan, F. Normuratov, Yu. Ts. Oganesyan, Yu. E. Penionzhkevich, B. I. Pustyl'nik, and G. N. Flerov. 8, 401 (1969) [8, 690 (1969)]

FOLOMESHKIN, V. N.
On the Search for Heavy Leptons—S. S. Gershteĭn and V. N. Folomeshkin. 8, 447 (1969) [8, 768 (1969)]

FOLOMESHKIN, V. N.
Electromagnetic Renormalization of the Vector Part of the (V_0^E) Interaction—V. N. Folomeshkin. 8, 314 (1969) [8, 537 (1969)]

FOLOMESHKIN, V. N.
Photoproduction of W Meson Pairs—V. G. Kompaneets and V. N. Folomeshkin. 8, 561 (1969) [8, 966 (1969)]

FOMENKO, D. E.
Investigation of the Reaction D(d, p)H^3 with a Polarized Deuteron Beam—B. P. Ad'yasevich, V. G. Antonenko, D. A. Kuznetsov, Yu. P. Polunin, and D. E. Fomenko. 8, 154 (1969) [8, 267 (1969)]

FONG, Nguyen Nguyen
Neutron Resonances of Nd Isotopes—E. N. Karzhavina, Nguyen Nguyen Fong, A. B. Popov, and A. I. Taskaev. 8, 371 (1969) [8, 639 (1969)]

FRANK, I. M.
Use of Deuterated Scintillators for Analysis of Fast-neutron Spectra—B. A. Benetskiĭ, E. M. Burymov and I. M. Frank. 8, 534 (1969) [8, 920 (1969)]

EFROS, V. D.
The Three Body Problem. The K-harmonics Method in Problems Involving the Continuum Spectrum—B. N. Zakhar'ev, V. V. Pustovalov, and V. D. Éfros. 8, 234 (1969) [8, 406 (1969)]

EGOROV, A. I.
Investigation of the α-radioactivity of Sm Isotopes—V. A. Korolev, G. D. Alkhazov, A. A. Vorobe'v, A. I. Egorov, and L. M. Vasil'eva. 8, 131 (1969) [8, 227 (1969)]

EL-SAMARAI, S. H.
Factorization of Many-Particle Fractional Parentage Coefficients—Yu. F. Smirnov, K. V. Shitikova, and S. H. El-Samarai. 8, 275 (1969) [8, 470 (1969)]

ERMAGAMBETOV, S. B.
Influence of the Parameters of the Optical Model on a Channel Analysis of Neutron Fission of Nuclei—S. B. Ermagambetov, V. E. Kolesov, V. G. Nesterov, G. N. Smirenkin, and A. S. Tishin. 8, 409 (1969) [8, 704 (1969)]

EROFEEV, I. A.
Search for Baryon NKπ Resonance with Strangeness S = +1 in the Reaction $\pi^- p \to NK\bar{K}\pi$ at an Incident π^--Meson Momentum of 3.25 BeV/c—V. V. Vladimirskiĭ, V. K. Grigor'ev, A. P. Grishin, I. A. Erofeev, L. V. Il'kov, G. D. Tikhomirov, K. A. Trostina, and F. M. Filler. 8, 190 (1969) [8, 331 (1969)]

GOGSADZE, G. Sh.
Application of the Translation Invariant Shell Model to the Computation of the Spectra of the Nuclei with A = 4 and 5—G. Sh. Gogsadze and T. I. Kopaleĭshvili. 8, 509 (1969) [8, 875 (1969)]

GOL'DIN, L. L.
Cross Section for Backward Elastic pd Scattering in the Energy Region 1-3.5 BeV—Yu. D. Bayukov, N. G. Birger, V. S. Borisov, G. K. Bysheva, L. S. Vorob'ev, L. L. Gol'din, L. N. Kondrat'ev, M. M. Korotkov, G. A. Leskin, Z. S. Sidorenko, L. I. Sokolov, G. K. Tumanov, V. B. Fedorov, and V. D. Khovanskiĭ. 8, 199 (1969) [8, 348 (1969)]

GOL'DSHTEĬN, V. A.
Inelastic Electromagnetic Form Factors of the C^{12} Nucleus in the Continuum Region—S. V. Dementiĭ, N. G. Afanas'ev, I. M. Arkatov, V. G. Vlasenko, V. A. Gol'dshteĭn, and E. L. Kuplennikov. 8, 248 (1969) [8, 429 (1969)]

GOL'FAND, Yu. A.
On the Structure of Local Field Theory—Yu. A. Gol'fand. 8, 348 (1969) [8, 600 (1969)]

GOLOVANOVA, N. F.
$(\pi^+, 2p)$ Reaction on Light Nuclei of the 1p Shell—N. F. Golovanova and N. S. Zelenskaya. 8, 158 (1969) [8, 275 (1969)]

GONCHAR, V. Yu.
Excitation of Multipole Collective States of the Ni and Zn Isotopes with an Analysis Based on the Method of Complex Angular Momentum—V. Yu. Gonchar, K. W. Zheltonog, G. N. Ivanov, and A. V. Yushkov. 8, 393 (1969) [8, 678 (1969)]

GORLOV, G. V.
Small-angle Scattering of 4-MeV Neutrons by the Nuclei Cu, In, Sn, Pb, Bi, and U—G. V. Gorlov, N. S. Lebedeva, and V. M. Morozov. 8, 630 (1969) [8, 1086 (1969)

GORYACHKIN, V. G.
Asymmetry in the Electroproduction $e^- + p \to e^- + n + \pi^+$ and Electromagnetic Form Factor of π^+ Meson—V. G. Goryachkin and V. G. Semikoz. 8, 452 (1969) [8, 776 (1969)]

GRIBOV, V. N.
Properties of the Pomeranchuk Pole and the Branch Cuts Related to it at Low Momentum Transfers—V. N. Gribov and A. A. Migdal. 8, 583 (1969) [8, 1002 (1969)]

GRIBOV, V. N.
Quasistable Pomeranchuk Pole and Diffraction Scattering at Ultrahigh Energies—V. N. Gribov and A. A. Migdal. 8, 703 (1969) [8, 1213 (1969)]

GRIDNEV, K. A.
Spectroscopic Factors of 2p Transitions in the Reaction (d, p) on Nuclei of Medium Atomic Weight—K. A. Gridnev, K. I. Zherebtsova, V. A. Komarov, L. V. Krasnov, V. F. Litvin, and Yu. A. Nemilov. 8, 639 (1969) [8, 1101 (1969)]

GRIGOR'EV, V. K.
Search for Baryon NKπ Resonance with Strangeness S = +1 in the Reaction $\pi^- p \to NK\bar{K}\pi$ at an Incident π^--Meson Momentum of 3.25 BeV/c—V. V. Vladimirskiĭ, V. K. Grigor'ev, A. P. Grishin, I. A. Erofeev, L. V. Il'kov, G. D. Tikhomirov, K. A. Trostina, and F. M. Filler. 8, 190 (1969) [8, 331 (1969)]

GRIGOR'EV, V. N.
Relative Internal Conversion Coefficients of the Gamma Transitions in Hf^{180}—V. S. Gvozdev, V. N. Grigor'ev, and Yu. V. Sergeenkov. 8, 1 (1969) [8, 3 (1969)]

GRIN', Yu. T.
Charge of the Quadrupole Moment of Deformed Nuclei Under the Influence of Rotation—Yu. T. Grin' and I. M. Pavlichenkov. 8, 279 (1969) [8, 477 (1969)]

GRISHIN, A. P.
Search for Baryon NKπ Resonance with Strangeness S = +1 in the Reaction $\pi^- p \to NK\bar{K}\pi$ at an Incident π^--Meson Momentum of 3.25 BeV/c—V. V. Vladimirskiĭ, V. K. Grigor'ev, A. P. Grishin, I. A. Erofeev, L. V. Il'kov, G. D. Tikhomirov, K. A. Trostina, and F. M. Filler. 8, 190 (1969) [8, 331 (1969)]

GRISHIN, V. G.
A Geometric Test of Isotopic Invariance of Elementary Particles—V. G. Grishin and M. I. Podgoretskiĭ. 8, 217 (1969) [8, 379 (1969)]

GROMOV, K. Ya.
The Decay Scheme of Er^{153}—A. S. Abdurazakov, K. Ya. Gromov, Zh. T. Zhelev, V. G. Kalinnikov, Ya. Liptak, U. K. Nazarov, and Ya. Urbanets. 8, 367 (1969) [8, 633 (1969)]

GROSHEV, L. V.
Spectra of γ Rays Produced Upon Capture of Thermal Neutrons by Nd Isotopes—L. V. Groshev, V. N. Dvoretskiĭ, A. M. Demidov, and A. S. Rakhimov. 8, 619 (1969) [8, 1067 (1969)]

GUALDI, C.
The Laser as a Source and Detector of Gravitons—V. De Sabbata, D. Boccaletti and C. Gualdi. 8, 537 (1969) [8, 924 (1969)]

GUERET, P.
Possible Decuplet of Baryon Resonances $^3/_2^+$—P. Gueret and L. Jenkovszky. 8, 605 (1969) [8, 1042 (1969)]

GUL'KAROV, I. S.
Elastic and Inelastic Scattering of High Energy Electrons by Si^{28} Nuclei—G. A. Savitskiĭ, N. G. Afanas'ev, I. S. Gul'karov, V. D. Kovalev, A. S. Omelaenko, V. M. Khvastunov, and N. G. Shevchenko. 8, 376 (1969) [8, 648 (1969)]

GUL'KAROV, I. S.
Radii of the Charge and Mass Distributions in Nuclei—N. G. Afanas'ev, N. G. Shevchenko, G. A. Savitskiĭ, I. S. Gul'karov, and V. M. Khavastunov. 8, 646 (1969) [8, 1112 (1969)]

GULYAMOV, U. G.
Interaction of 21-BeV Protons with Heavy Emulsion Nuclei in a Strong Magnetic Field—A. Azimov, U. G. Gulyamov, N. M. Myalkovskaya, L. N. Svechnikova, L. P. Chernova and G. M. Chernov. 8, 542 (1969) [8, 933 (1969)]

GUMAN, V. N.
Residual Interactions of Particles in the Nucleus—I. M. Band, V. N. Guman, L. A. Sliv, and Yu. I. Kharitonov. 8, 650 (1969) [8, 1118 (1969)]

GUR'EV, V. N.
Elastic Photoproduction of π^0 Mesons from He^4—V. N. Gur'ev. 8, 713 (1969) [8, 1232 (1969)]

GUZHAVIN, V. M.
Study of the Quasi Two-particle Processes $\pi^- p \to \rho^0 N^{0*}$ (1238), $\pi^- p \to \omega^0 N^{0*}$ (1238), and $\pi^- p \to pA_1^-$ at a Momentum of 3.25 BeV/c—I. A. Vetlitskiĭ, V. M. Guzhavin, A. B. Kaĭdalov, B. A. Karnakov, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, V. T. Smolyankin, and A. P. Sokolov. 8, 192 (1969) [8, 335 (1969)]

GUZHAVIN, V. M.
Study of the Reaction $\pi^- p \to \Delta^{0*}$ (1236) $\pi^- \pi^-$ at 3.25 BeV/c—I. A. Vetlitskiĭ, V. M. Guzhavin, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, I. M. Narodetskiĭ, V. T. Smolyankin, and A. P. Sokolov. 8, 433 (1969) [8, 743 (1969)]

GVOZDEV, V. S.
Relative Internal Conversion Coefficients of the Gamma Transitions in Hf^{180}—V. S. Gvozdev, V. N. Grigor'ev, and Yu. V. Sergeenkov. 8, 1 (1969) [8, 3 (1969)]

GVOZDEV, V. S.
Investigation of Excited Ca^{140} States Above 2.5 MeV by Means of Pair Conversion Electrons—B. N. Belyaev, S. S. Vasilenko and V. S. Gvozdev. 8, 135 (1969) [8, 235 (1969)]

HONG, Nguyen Thi
Asymptotic Equality of Neutrino-Nucleon and Antineutrino-Nucleon Cross Sections—Nguyen Thi Hong. 8, 312 (1969) [8, 535 (1969)]

HRASKO, P.
On the Anomalous Forward Scattering of 14-MeV Neutrons by Uranium—A. Ádám, F. Deák, L. Jéki, A. Kiss, Z. Kövessy, G. Palla, and P. Hrasko. 8, 255 (1969) [8, 439 (1969)]

IGNATYUK, A. V.
Influence of Discrete Structure of Single-particle Spectrum on the Thermodynamic Functions of Nuclei—A. V. Ignatyuk and Yu. N. Shubin. 8, 660 (1969) [8, 1135 (1969)]

IL'KOV, L. V.
Search for Baryon NKπ Resonance with Strangeness S = +1 in the Reaction $\pi^- p \to NK\bar{K}\pi$ at an Incident π^--Meson Momentum of 3.25 BeV/c—V. V. Vladimirskiĭ, V. K. Grigor'ev,

A. P. Grishin, I. A. Erofeev, L. V. Il'kov, G. D. Tikhomirov, K. A. Trostina, and F. M. Filler. 8, 190 (1969) [8, 331 (1969)]

INOPIN, E. V.
Diffraction Theory of Stripping Reactions—A. V. Shebeko and E. V. Inopin. 8, 664 (1969) [8, 1142 (1969)]

ISAKOV, A. I.
Cross Section for Absorption of γ Rays by Sulfur Nuclei in the Region of the Giant Dipole Resonance—B. S. Dolbilkin, A. I. Isakov, V. I. Korin, L. E. Lazareva, and F. A. Nikolaev. 8, 626 (1969) [8, 1080 (1969)]

IVANOV, G. N.
Excitation of Multipole Collective States of the Ni and Zn Isotopes with an Analysis Based on the Method of Complex Angular Momentum—V. Yu. Gonchar, K. W. Zheltonog, G. N. Ivanov, and A. V. Yushkov. 8, 393 (1969) [8, 678 (1969)]

IVANOV, O. I.
Multiparameter Study of the Anisotropy of γ-Ray Emission in Fission of U^{235}—O. I. Ivanov, Yu. A. Kushnir and G. N. Smirenkin. 8, 29, (1969) [8, 50, (1969)]

JĒKI, L.
On the Anomalous Forward Scattering of 14-MeV Neutrons by Uranium—A. Ádám, F. Deak, L. Jéki, A. Kiss, Z. Kövessy, G. Palla, and P. Hrasko. 8, 255 (1969) [8, 439 (1969)]

JENKOVSZKY, L.
Possible Decuplet of Baryon Resonances $^5/_2^+$—P. Gueret and L. Jenkovszky. 8, 605 (1969) [8, 1042 (1969)]

KADMENSKIĬ, S. G.
Polarizability and Elastic Scattering of α Particles—S. G. Kadmenskiĭ. 8, 284 (1969) [8, 486 (1969)]

KAĬDALOV, A. B.
Study of the Quasi Two-particle Processes $\pi^-p \to \rho^0 N^{**}$ (1238), $\pi^-p \to \omega^0 N^{**}$ (1238), and $\pi^-p \to pA_2^-$ at a Momentum of 3.25 BeV/c —I. A. Vetlitskiĭ, V. M. Guzhavin, A. B. Kaĭdalov, B. A. Karnakov, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, V. T. Smolyankin, and A. P. Sokolov. 8, 192 (1969) [8, 335 (1969)]

KALINKIN, B. N.
N-forbidden β Transitions in Deformed Nuclei in the Approximation of a Finite Potential with Diffuse Edge—F. A. Gareev, B. N. Kalinkin, N. I. Pyatov, and M. I. Cherneĭ. 8, 176 (1969) [8, 305 (1969)]

KALINNIKOV, V. G.
The Decay Scheme of Er^{158}—A. S. Abdurazakov, K. Ya. Gromov, Zh. T. Zhelev, V. G. Kalinnikov, Ya. Liptak, U. K. Nazarov, and Ya. Urbanets. 8, 367 (1969) [8, 633 (1969)]

KALKHAZHAV, N.
Summary Data on Elastic pp and pd Scattering at Small Angles and the Real Part of the pn-scattering Amplitude in Energy Interval 1-10 BeV—N. Kalkhazhav, P. A. Devinski, V. I. Zayachki, Z. M. Zlatanov, L. S. Zolin, L. F. Kirillova, Z. Korbel, P. K. Markov, Ngo Kuang Zui, Nguyen Din Ty, V. A. Nikitin, L. Rob, V. A. Sviridov, D. Tuvdendorzh, L. G. Khristov, Kh. M. Chernev, Chyong Byen, and M. G. Shafranova. 8, 196 (1969) [8, 342 (1969)]

KALKIN, I. A.
The Helicity Group in the Relativistic Symmetric Kepler Problem—I. A. Kalkin and V. I. Manko. 8, 363 (1969) [8, 627 (1969)]

KARADZHEV, K. V.
Spin Mixing in the Input Channels of the Reaction P^{31} (p, α_0) Si^{28}—K. V. Karadzhev, V. I. Man'ko, and F. E. Chukreev. 8, 184 (1969) [8, 321 (1969)]

KARAMYAN, S. A.
Fragment-mass Distribution from Heavy-ion Fission of Bismuth and Uranium—S. A. Karamyan, F. Normuratov, Yu. Ts. Oganesyan, Yu. E. Penionzhkevich, B. I. Pustyl'nik, and G. N. Flerov. 8, 401 (1969) [8, 690 (1969)]

KARASEV, V. P.
Relation Between the Clebsch-Gordon Coefficients of Different SU(n) Groups and Symmetries of Physical Systems—V. P. Karasev and L. A. Shelepin. 8, 357 (1969) [8, 615 (1969)]

KARNAKOV, B. A.
Study of the Quasi Two-particle Processes $\pi^-p \to \rho^0 N^{**}$ (1238), $\pi^-p \to \omega^0 N^{**}$ (1238), and $\pi^-p \to pA_2^-$ at a Momentum of 3.25 BeV/c —I. A. Vetlitskiĭ, V. M. Guzhavin, A. B. Kaĭdalov, B. A. Karnakov, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, V. T. Smolyankin, and A. P. Sokolov. 8, 192 (1969) [8, 335 (1969)]

KARZHAVINA, E. N.
Neutron Resonances of Nd Isotopes—E. N. Karzhavina, Nguyen Nguyen Fong, A. B. Popov, and A. I. Taskaev. 8, 371 (1969) [8, 639 (1969)]

KAZACHEVSKIĬ, I. V.
Decay of Co^{62} Isomers—B. G. Kiselev, V. N. Levkovskiĭ, and I. V. Kazachevskiĭ. 8, 617 (1969) [8, 1063 (1969)]

KERIMOV, B. K.
Radiative Corrections to Neutrino Annihilation of a Lepton-antilepton Pair—V. P. Tsvetkov and B. K. Kerimov. 8, 679 (1969) [8, 1171 (1969)]

KHARITONOV, Yu. I.
Residual Interactions of Particles in the Nucleus—I. M. Band, V. N. Guman, L. A. Sliv, and Yu. I. Kharitonov. 8, 650 (1969) [8, 1118 (1969)]

KHARLAMOV, S. P.
Phenomenological Analysis of Charged Pion Photoproduction from Nucleons in the Near-threshold Region—M. I. Adamovich, V. G. Larionova, S. P. Kharlamov and F. R. Yagudina. 8, 685 (1969) [8, 1181 (1969)]

KHAVASTUNOV, V. M.
Radii of the Charge and Mass Distributions in Nuclei—N. G. Afanas'ev, N. G. Shevchenko, G. A. Savitskiĭ, I. S. Gul'karov, and V. M. Khavastunov. 8, 646 (1969) [8, 1112 (1969)]

KHODZHAEV, M. Kh.
Spectroscopy of the Nucleus In^{111}—R. B. Begzhanov, M. Kh. Khodzhaev, and Sh. Sh. Shapirov. 8, 142 (1969) [8, 247 (1969)]

SHOVANSKII, V. D.
Cross Section for Backward Elastic pd Scattering in the Energy Region 1-3.5 BeV—Yu. D. Bayukov, N. G. Birger, V. S. Borisov, G. K. Bysheva, L. S. Vorob'ev, L. L. Gol'din, L. N. Kondrat'ev, M. M. Korotkov, G. A. Leskin, Z. S. Sidorenko, L. I. Sokolov, G. K. Tumanov, V. B. Fedorov, and V. D. Khovanskiĭ. 8, 199 (1969) [8, 348 (1969)]

KHOZE, V. A.
Double Bremsstrahlung in Electron-electron Collisions; the Hard End of the Spectrum—V. N. Baĭer, V. M. Galitskiĭ, V. S. Fadin and V. A. Khoze. 8, 681 (1969) [8, 1174 (1969)]

KHRIPLOVICH, I. B.
Estimates of $K \to \pi e^- e^-$ Decay Probabilities—V. V. Geidt and I. B. Khriplovich. 8, 558 (1969) [8, 960 (1969)]

KHRISTOV, L. G.
Summary Data on Elastic pp and pd Scattering at Small Angles and the Real Part of the pn-scattering Amplitude in Energy Interval 1-10 BeV—N. Kalkhazhav, P. A. Devinski, V. I. Zayachki, Z. M. Zlatanov, L. S. Zolin, L. F. Kirillova, Z. Korbel, P. K. Markov, Ngo Kuang Zui, Nguyen Din Ty, V. A. Nikitin, L. Rob, V. A. Sviridov,

D. Tuvdendorzh, L. G. Khristov, Kh. M. Chernev, Chyong Byen, and M. G. Shafranova. 8, 196 (1969) [8, 342 (1969)]

KHRUSTALEV, O. A.
Semiphenomenological Analysis of the Scattering Amplitude at High Energies—V. I. Savrin and O. A. Khrustalev. 8, 591 (1969) [8, 1016 (1969)]

KHVASTUNOV, V. M.
Elastic and Inelastic Scattering of High Energy Electrons by Si^{28} Nuclei—G. A. Savitskiĭ, N. G. Afanas'ev, I. S. Gul'karov, V. D. Kovalev, A. S. Omelaenko, V. M. Khvastunov, and N. G. Shevchenko. 8, 376 (1969) [8, 648 (1969)]

KIRILLOVA, L. F.
Summary Data on Elastic pp and pd Scattering at Small Angles and the Real Part of the pn-scattering Amplitude in Energy Interval 1-10 BeV—N. Kalkhazhav, P. A. Devinski, V. I. Zayachki, Z. M. Zlatanov, L. S. Zolin, L. F. Kirillova, Z. Korbel, P. K. Markov, Ngo Kuang Zui, Nguyen Din Ty, V. A. Nikitin, L. Rob, V. A. Sviridov, D. Tuvdendorzh, L. G. Khristov, Kh. M. Chernev, Chyong Byen, and M. G. Shafranova. 8, 196 (1969) [8, 342 (1969)]

KISELEV, B. G.
Investigation of the $Te^{116} \rightarrow Sb^{116} \rightarrow Sn^{116}$ Decay Chain—B. G. Kiselev and V. R. Burmistrov. 8, 613 (1969) [8, 1057 (1969)]

KISELEV, B. G.
Decay of Co^{62} Isomers—B. G. Kiselev, V. N. Levkovskiĭ, and I. V. Kazachevskiĭ. 8, 617 (1969) [8, 1063 (1969)]

KISS, A.
On the Anomalous Forward Scattering of 14-MeV Neutrons by Uranium—A. Ádám, F. Deak, L. Jéki, A. Kiss, Z. Kövessy, G. Palla, and P. Hrasko. 8, 255 (1969) [8, 439 (1969)]

KLIGER, G. K.
Study of the Quasi Two-particle Processes $\pi^- p \rightarrow \rho^0 N^{*0}$ (1238), $\pi^- p \rightarrow \omega^0 N^{*0}$ (1238), and $\pi^- p \rightarrow pA_2^-$ at a Momentum of 3.25 BeV/c —I. A. Vetlitskiĭ, V. M. Guzhavin, A. B. Kaĭdalov, B. A. Karnakov, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, V. T. Smolyankin, and A. P. Sokolov. 8, 192 (1969) [8, 335 (1969)]

KLIGER, G. K.
Study of the Reaction $\pi^- p \rightarrow \Delta^{++}$ (1236) $\pi^- \pi^-$ at 3.25 BeV/c—I. A. Vetlitskiĭ, V. M. Guzhavin, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, I. M. Narodetskiĭ, V. T. Smolyankin, and A. P. Sokolov. 8, 433 (1969) [8, 743 (1969)]

KOLALIS, R. P.
The Reaction $C^{13}(d, \alpha)B^{11}$ with 6.3-MeV Deuterons—A. E. Denisov, R. P. Kolalis V. Sadkovskiĭ, and E. D. Teterin. 8, 153 (1969) [8, 265 (1969)]

KOLESOV, V. E.
Influence of the Parameters of the Optical Model on a Channel Analysis of Neutron Fission of Nuclei—S. B. Ermagambetov, V. E. Kolesov, V. G. Nesterov, G. N. Smirenkin, and A. S. Tishin. 8, 409 (1969) [8, 704 (1969)]

KOLGANOV, V. Z.
Study of the Quasi Two-particle Processes $\pi^- p \rightarrow \rho^0 N^{*0}$ (1238), $\pi^- p \rightarrow \omega^0 N^{*0}$ (1238), and $\pi^- p \rightarrow pA_2^-$ at a Momentum of 3.25 BeV/c —I. A. Vetlitskiĭ, V. M. Guzhavin, A. B. Kaĭdalov, B. A. Karnakov, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, V. T. Smolyankin, and A. P. Sokolov. 8, 192 (1969) [8, 335 (1969)]

KOLGANOV, V. Z.
Study of the Reaction $\pi^- p \rightarrow \Delta^{++}$ (1236) $\pi^- \pi^-$ at 3.25 BeV/c—I. A. Vetlitskiĭ, V. M. Guzhavin, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, I. M. Narodetskiĭ, V. T. Smolyankin, and A. P. Sokolov. 8, 433 (1969) [8, 743 (1969)]

KOLYBASOV, V. M.
Polarization Effects in Direct Nuclear Reactions Producing Three Particles—V. M. Kolybasov. 8, 522 (1969) [8, 898 (1969)]

KOMAROV, V. A.
Spectroscopic Factors of 2p Transitions in the Reaction (d, p) on Nuclei of Medium Atomic Weight—K. A. Gridnev, K. I. Zherebtsova, V. A. Komarov, L. V. Krasnov, V. F. Litvin, and Yu. A. Nemilov. 8, 639 (1969) [8, 1101 (1969)]

KOMAROV, V. I.
Measurement of the Probability of Heavy Charged Particle Emission in Capture of μ^--mesons by Neon Nuclei—V. I. Komarov and O. V. Savchenko. 8, 239 (1969) [8, 415 (1969)]

KOMPANEETS, V. G.
Photoproduction of W Meson Pairs—V. G. Kompaneets and V. N. Folomeshkin. 8, 561 (1969) [8, 966 (1969)]

KONDRAT'EV, L. N.
Cross Section for Backward Elastic pd Scattering in the Energy Region 1-3.5 BeV—Yu. D. Bayukov, N. G. Birger, V. S. Borisov, G. K. Bysheva, L. S. Vorob'ev, L. L. Gol'din, L. N. Kondrat'ev, M. M. Korotkov, G. A. Leskin, Z. S. Sidorenko, L. I. Sokolov, G. K. Tumanov, V. B. Fedorov, and V. D. Khovanskiĭ. 8, 199 (1969) [8, 348 (1969)]

KONDRATYUK, L. A.
On $\Xi \rightarrow A\pi\gamma$ Decays—V. I. Zakharov, L. A. Kondratyuk, and L. A. Ponomarev. 8, 60 (1969) [8, 106 (1969)]

Bremsstrahlung and Determination of Electromagnetic Parameters of Particles—V. I. Zakharov, L. A. Kondratyuk, and L. A. Ponomarev. 8, 456 (1969) [8, 783 (1969)]

The Decay $K_2^0 \rightarrow \pi^+\pi^-e^+e^-$ and the Electromagnetic Radius of the $K_2^0 \rightarrow K_1^0$ Transition—V. I. Zakharov, L. A. Kondrâtyuk, and L. A. Ponomarev. 8, 571 (1969) [8, 983 (1969)]

KOPALEĬSHVILI, T. I.
Application of the Translation Invariant Shell Model to the Computation of the Spectra of the Nuclei with $A = 4$ and 5—G. Sh. Gogsadze and T. I. Kopaleĭshvili. 8, 509 (1969) [8, 875 (1969)]

KOPELIOVICH, V.
Concerning Ω^--Hyperon Decays—V. Kopeliovich. 8, 306 (1969) [8, 524 (1969)]

KOPELIOVICH, V. B.
Electromagnetic T-odd Correlations in the Decays $\Lambda \rightarrow pe\bar{\nu}$ AN and $\Sigma^- \rightarrow ne\bar{\nu}$—V. B. Kopeliovich and A. N. Tverdokhlebov. 8, 212, (1969) [8, 371 (1969)]

KORBEL, Z.
Summary Data on Elastic pp and pd Scattering at Small Angles and the Real Part of the pn-scattering Amplitude in Energy Interval 1-10 BeV—N. Kalkhazhav, P. A. Devinski, V. I. Zayachki, Z. M. Zlatanov, L. S. Zolin, L. F. Kirillova, Z. Korbel, P. K. Markov, Ngo Kuang Zui, Nguyen Din Ty, V. A. Nikitin, L. Rob, V. A. Sviridov, D. Tuvdendorzh, L. G. Khristov, Kh. M. Chernev, Chyong Byen, and M. G. Shafranova. 8, 196 (1969) [8, 342 (1969)]

KOROLEV, V. A.
Investigation of the α-radioactivity of Sm Isotopes—V. A. Korolev, G. D. Alkhazov, A. A. Vorobe'v, A. I. Egorov, and L. M. Vasil'eva. 8, 131 (1969) [8, 227 (1969)]

KORIN, V. I.
Cross Section for Absorption of γ Rays by Sulfur Nuclei in the Region of the Giant Dipole Resonance—B. S. Dolbilkin, A. I. Isakov, V. I. Korin, L. E. Lazareva, and F. A. Nikolaev. 8, 626 (1969) [8, 1080 (1969)]

KOROSTOVA, I. N.
Investigation of Anomalies in Elastic Scattering of 136.-MeV Deuterons by Nuclei in the Region N = 50—I. N. Korostova, L. S. Sokolov, V. V. Tokarevskiĭ, I. P. Chernov, and A. A. Yatis. 8, 6 (1969) [8, 10 (1969)]

KOROTKOV, M. M.
Cross Section for Backward Elastic pd Scattering in the Gol'din, L. N. Kondrat'ev, M. M. Korotkov, G. A. Leskin, Z. S. Sidorenko, L. I. Sokolov, G. K. Tumanov, V. B. Fedorov, and V. D. Khovanskiĭ. 8, 199 (1969) [8, 348 (1969)]

KOSMACH, V. F.
The Reaction $C^{12}(\pi^+, 2p)d2\alpha$ With 117-MeV π^+ Mesons—V. F. Kosmach, A. A. Kotov, and V. I. Ostroumov. 8, 18 (1969) [8, 32 (1969)]

KOSMACH, V. F.
The $C^{12}(\pi, \pi')$ 3α Reaction at 117 MeV—A. G. Banin, V. F. Kosmach, and V. I. Ostroumov. 8, 399 (1969) [8, 688 (1969)]

KOTOV, A. A.
The Reaction $C^{12}(\pi^+, 2p)d2\alpha$ With 117-MeV π^+ Mesons—V. F. Kosmach, A. A. Kotov, and V. I. Ostroumov. 8, 18 (1969) [8, 32 (1969)]

KOTOV, Yu. D.
Intensity and Angular Distribution of Muons Underground—Yu. D. Kotov and V. M. Logunov. 8, 437 (1969) [8, 750 (1969)]

KOVAL', L. N.
Photoproduction of Neutral Vector Mesons at High Energies in the Regge-pole Model—L. N. Koval' and S. G. Matinyan. 8, 581 (1969) [8, 999 (1969)]

KOVALEV, V. D.
Elastic and Inelastic Scattering of High Energy Electrons by Si^{28} Nuclei—G. A. Savitskiĭ, N. G. Afanas'ev, I. S. Gul'karov, V. D. Kovalev, A. S. Omelaenko, V. M. Khvastunov, and N. G. Shevchenko. 8, 376 (1969) [8, 648 (1969)]

KOVEL'SKAYA, G. E.
Cross Sections of the (n, p) and (n, α) Reactions at 14.8 MeV—B. Levkovskiĭ, G. E. Kovel'skaya, G. P. Vinitskaya, V. M. Stepanov, and V. V. Sokol'skiĭ. 8, 4 (1969) [8, 7 (1969)]

KÖVESSY, Z.
On the Anomalous Forward Scattering of 14-MeV Neutrons by Uranium—A. Ádám, F. Deak, L. Jéki, A. Kiss, Z. Kövessy, G. Palla, and P. Hrasko. 8, 255 (1969) [8, 439 (1969)]

KRASNOV, L. V.
Spectroscopic Factors of 2p Transitions in the Reaction (d, p) on Nuclei of Medium Atomic Weight—K. A. Gridnev, K. I. Zherebtsova, V. A. Komarov, L. V. Krasnov, V. F. Litvin, and Yu. A. Nemilov. 8, 639 (1969) [8, 1101 (1969)]

KRAVTSOV, A. V.
Study of the Reaction $\pi^-p \to \pi^-p\gamma$ at 340 MeV—T. D. Blokhintseva, A. V. Kravtsov and S. G. Sherman. 8, 539 (1969) [8, 928 (1969)]

KUCHMA, A. S.
Lifetime of the 242.8-keV Level in Er^{183}—G. T. Adylov, R. Babadzhanov, A. S. Kuchma, and V. A. Morozov. 8, 241 (1969) [8, 417 (1969)]

KULESHOV, V. A.
Determination of the Sign of the $\pi^+\pi^-$ Scattering Amplitude—A. V. Aref'ev, Yu. D. Bayukov, Yu. M. Zaĭtsev, V. A. Kuleshov, and G. A. Leksin. 8, 365 (1969) [8, 631 (1969)]

KUPLENNIKOV, E. L.
Inelastic Electromagnetic Form Factors of the C^{12} Nucleus in the Continuum Region—S. V. Dementiĭ, N. G. Afanas'ev, I. M. Arkatov, V. G. Vlasenko, V. A. Gol'dshteĭn, and E. L. Kuplennikov. 8, 248 (1969) [8, 429 (1969)]

KURCHATOV, B. V.
Radiochemical Investigation of Th^{229} Fission by Slow Neutrons—N. I. Borisova, R. A. Zen'kova, B. V. Kurchatov, L. N. Morozov, V. I. Novgorodtseva, V. A. Pchelin, L. V. Chistyakov, and V. M. Shubko. 8, 404 (1969) [8, 695 (1969)]

KURDGELAIDZE, D. F.
Nonlinear Fusion Equations—A. Kh. Bas'yuni and D. F. Kurdgelaidze. 8, 87 (1969) [8, 154 (1969)]

KUSHNIR, Yu. A.
Multiparameter Study of the Anisotropy of γ-Ray Emission in Fission of U^{235}—O. I. Ivanov, Yu. A. Kushnir and G. N. Smirenkin. 8, 29, (1969) [8, 50, (1969)]

KUZ'MIN, I. I.
Scattering of Neutrons by Chemically Bound Protons—A. I. Baz', V. F. Demin, I. I. Kuz'min, and Yu. K. Rogov. 8, 37 (1969) [8, 65 (1969)]

KUZ'MINOV, B. D.
Energy and Mass Distribution of Fragments from Fission of U^{235} by Monoenergetic Neutrons from 0 to 15.5 MeV—P. P. D'yachenko, B. D. Kuz'minov, and M. Z. Tarasko. 8, 165 (1969) [8, 286 (1969)]

KUZNETSOV, Yu. P.
Investigation of the Reaction D(d, p)H^3 with a Polarized Deuteron Beam—B. P. Ad'yasevich, V. G. Antonenko, D. A. Kuznetsov, Yu. P. Polunin, and D. E. Fomenko. 8, 154 (1969) [8, 267 (1969)]

KUZNETSOV, I. V.
Observation of Isotopes of Po and At Among Fission Fragments from Bombardment of U^{238} By Ne^{20} and Ar^{40} Ions—I. V. Kuznetsov, N. S. Mal'tseva, Yu. Ts. Oganesyan, A. M. Sukhov, and V. A. Shchegolev. 8, 260 (1969) [8, 448 (1969)]

LABANOV, Yu. V.
Properties of the Isotopes $Ra^{214-206}$—Yu. V. Labanov and V. A. Druin. 8, 493 (1969) [8, 849 (1969)]

LAPIDUS, L. I.
Spin Effects in the Degeneration of K^0 Mesons—L. I. Lapidus 8, 46 (1969) [8, 81 (1969)]

LAPIDUS, L. I.
Photoproduction of Mesons by Polarized Photons and the Primakoff Effect—L. I. Lapidus and M. M. Musakhanov. 8, 462 (1969) [8, 793 (1969)]

LARIONOVA, V. G.
Phenomenological Analysis of Charged Pion Photoproduction from Nucleons in the Near-threshold Region—M. I. Adamovich, V. G. Larionova, S. P. Kharlamov and F. R. Yagudina. 8, 685 (1969) [8, 1181 (1969)]

LAZAREVA, L. E.
Cross Section for Absorption of γ Rays by Sulfur Nuclei in the Region of the Giant Dipole Resonance—B. S. Dolbilkin, A. I. Isakov, V. I. Korin, L. E. Lazareva, and F. A. Nikolaev. 8, 626 (1969) [8, 1080 (1969)]

LEBEDEV, A. V.
Study of the Quasi Two-particle Processes $\pi^-p \to \rho^0N^{*0}$ (1238), $\pi^-p \to \omega^0N^{*0}$ (1238), and $\pi^-p \to pA_2^-$ at a Momentum of 3.25 BeV/c —I. A. Vetlitskiĭ, V. M. Guzhavin, A. B. Kaĭdalov, B. A. Karnakov, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, V. T. Smolyankin, and A. P. Sokolov. 8, 192 (1969) [8, 335 (1969)]

LEBEDEV, A. V.
Study of the Reaction $\pi^- p \rightarrow \Delta^{++}$ (1236) $\pi^- \pi^-$ at 3.25 BeV/c—I. A. Vetlitskiĭ, V. M. Guzhavin, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, I. M. Narodetskiĭ, V. T. Smolyankin, and A. P. Sokolov. 8, 433 (1969) [8, 743 (1969)]

LEBEDEVA, N. S.
Small-angle Scattering of 4-MeV Neutrons by the Nuclei Cu, In, Sn, Pb, Bi, and U—G. V. Gorlov, N. S. Lebedeva, and V. M. Morozov. 8, 630 (1969) [8, 1086 (1969)

LEKSIN, G. A.
Phases of $\pi\pi$ Scattering in the States with T = 0 and T = 2—G. A. Leksin. 8, 92 (1969) [8, 165 (1969)]

LEKSIN, G. A.
Determination of the Sign of the $\pi^+\pi^-$ Scattering Amplitude—A. V. Aref'ev, Yu. D. Bayukov, Yu. M. Zaĭtsev, V. A. Kuleshov, and G. A. Leksin. 8, 365 (1969) [8, 631 (1969)]

LEND'YEL, V. I.
Resonance Solutions of the πN Scattering Equations—V. I. Lend'yel and D. M. Marina. 8, 606 (1969) [8, 1044 (1969)]

LEPESTKIN, A. I.
Asymmetry of Photoneutron Angular Distributions—A. I. Lepestkin. 8, 251 (1969) [8, 433 (1969)]

LESKIN, G. A.
Cross Section for Backward Elastic pd Scattering in the Energy Region 1-3.5 BeV—Yu. D. Bayukov, N. G. Birger, V. S. Borisov, G. K. Bysheva, L. S. Vorob'ev, L. L. Gol'din, L. N. Kondrat'ev, M. M. Korotkov, G. A. Leskin, Z. S. Sidorenko, L. I. Sokolov, G. K. Tumanov, V. B. Fedorov, and V. D. Khovanskiĭ. 8, 199 (1969) [8, 348 (1969)]

LEVIN, E. M.
Analysis of the Reactions $\pi + N \rightarrow \pi + \pi + N$ at T_π = 350-600 MeV. Determination of the Contribution of the Triangular Diagram and Estimate of the $\pi\pi^-$ Scattering Amplitude at Low Energies—V. V. Anisovich, E. M. Levin, A. K. Likhoded, and Yu. G. Stroganov. 8, 339 (1969) [8, 583 (1969)]

LEVINTOV, I. I.
Neutron Polarization in (d, n) Reactions in Medium-Mass Nuclei—I. I. Levintov, V. V. Okorokov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 8 (1969) [8, 14 (1969)]

LEVKOVSKIĬ, B.
Cross Sections of the (n, p) and (n, α) Reactions at 14.8 MeV—B. Levkovskiĭ, G. E. Kovel'skaya, G. P. Vinitskaya, V. M. Stepanov, and V. V. Sokol'skiĭ. 8, 4 (1969) [8, 7 (1969)]

LEVKOVSKIĬ, V. N.
Decay of Co^{62} Isomers—B. G. Kiselev, V. N. Levkovskiĭ, and I. V. Kazachevskiĭ. 8, 617 (1969) [8, 1063 (1969)]

LIKHODED, A. K.
From What Experimental Data Can We Determine the Degree of Violation of the Selection Rule $\Delta T = 1/2$ in the Decay $K \rightarrow 3\pi$?—V. V. Anisovich, L. G. Dakhno, and A. K. Likhoded. 8, 52 (1969) [8, 91 (1969)]

LIKHODED, A. K.
Analysis of the Reactions $\pi + N \rightarrow \pi + \pi + N$ at T_π = 350-600 MeV. Determination of the Contribution of the Triangular Diagram and Estimate of the $\pi\pi^-$ Scattering Amplitude at Low Energies—V. V. Anisovich, E. M. Levin, A. K. Likhoded, and Yu. G. Stroganov. 8, 339 (1969) [8, 583 (1969)]

LIPMANOV, É. M.
Consequences of γ_5 Invariance for Decays of Neutral Kaons into Lepton Pairs—É. M. Lipmanov. 8, 310 (1969) [8, 532 (1969)]

LIPTAK, Ya.
The Decay Scheme of Er^{153}—A. S. Abdurazakov, K. Ya. Gromov, Zh. T. Zhelev, V. G. Kalinnikov, Ya. Liptak, U. K. Nazarov, and Ya. Urbanets. 8, 367 (1969) [8, 633 (1969)]

LITVIN, V. F.
Spectroscopic Factors of 2p Transitions in the Reaction (d, p) on Nuclei of Medium Atomic Weight—K. A. Gridnev, K. I. Zherebtsova, V. A. Komarov, L. V. Krasnov, V. F. Litvin, and Yu. A. Nemilov. 8, 639 (1969) [8, 1101 (1969)]

LIVSHITZ, M. A.
Nonperturbative Description of the Weak Interaction of Leptons—M. A. Livshitz. 8, 720 (1969) [8, 1245 (1969)]

LOBKOVSKIĬ, A. P.
Investigation of the $F^{19}(d,\alpha)$ Reaction in the Energy Range 2.4—3.95 MeV—I. I. Zalyuboyskiĭ, A. P. Lobkovskiĭ, O. F. Nemets, and A. Z. Melenevskiĭ. 8, 384 (1969) [8, 663 (1969)]

LOBOV, G. A.
Weak-Interaction Effects in Scattering of Electrons and Muons by Protons—G. A. Lobov and E. P. Shabalin. 8, 564 (1969) [8, 971 (1969)]

LOGUNOV, V. M.
Intensity and Angular Distribution of Muons Underground—Yu. D. Kotov and V. M. Logunov. 8, 437 (1969) [8, 750 (1969)]

LOMKATSI, G. S.
Study of the Quasi Two-particle Processes $\pi^- p \rightarrow \rho^0 N^{*0}$ (1238), $\pi^- p \rightarrow \omega^0 N^{*0}$ (1238), and $\pi^- p \rightarrow pA_2^-$ at a Momentum of 3.25 BeV/c—I. A. Vetlitskiĭ, V. M. Guzhavin, A. B. Kaĭdalov, B. A. Karnakov, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, V. T. Smolyankin, and A. P. Sokolov. 8, 192 (1969) [8, 335 (1969)]

LOMKATSI, G. S.
Investigation of Spin and Parity of the A_2 Meson—V. V. Vladimirskiĭ, O. N. Vasil'eva, G. S. Lomkatsi, and G. D. Tikhomirov. 8, 295 (1969) [8, 507 (1969)]

LOMKATSI, G. S.
Study of the Reaction $\pi^- p \rightarrow \Delta^{++}$ (1236) $\pi^- \pi^-$ at 3.25 BeV/c—I. A. Vetlitskiĭ, V. M. Guzhavin, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, I. M. Narodetskiĭ, V. T. Smolyankin, and A. P. Sokolov. 8, 433 (1969) [8, 743 (1969)]

LOPTAKO, I. D.
Polarization of Photons Elastically Scattered by Carbon—R. P. Slabospitskiĭ, G. B. Andreev, I. D. Loptako, V. I. Boroviev, V. A. Lutsik, and A. Ya. Taranov. 8, 502 (1969) [8, 865 (1969)]

LUTSIK, V. A.
Polarization of Photons Elastically Scattered by Carbon—R. P. Slabospitskiĭ, G. B. Andreev, I. D. Loptako, V. I. Boroviev, V. A. Lutsik, and A. Ya. Taranov. 8, 502 (1969) [8, 865 (1969)]

LYAKHOVITSKIĬ, V. N.
Binding Energy and Wave Function of H^3 and He^3. Non-existence of the Tri-neutron and Excited States of H^3—A. M. Badalyan, E. S. Gal'pern, and V. N. Lyakhovitskiĭ. 8, 180 (1969) [8, 313 (1969)]

LYUL'KA, V. A.
Energy and Angular Distributions in Mesonic Decays of Hypernuclei—V. A. Lyul'ka. 8, 206 (1969) [8, 360 (1969)]

MALKIN, I. A.
The Dynamical Symmetry of a Relativistic Charged Particle in a Constant Magnetic Field—I. A. Malkin and V. I. Man'ko. 8, 731 (1969) [8, 1264 (1969)]

MALOV, L. A.
Equilibrium Deformations of Nuclei in the Region $50 < Z < 82$ and $50 < N < 82$—D. A. Arsen'ev, L. A. Malov, V. V. Pashkevich, A. Sobiczewski, and V. G. Solov'ev. 8, 514 (1969) [8, 883 (1969)]

MAL'TSEVA, N. S.
Observation of Isotopes of Po and At Among Fission Fragments from Bombardment of U^{238} By Ne^{20} and Ar^{40} Ions—I. V. Kuznetsov, N. S. Mal'tseva, Yu. Ts. Oganesyan, A. M. Sukhov, and V. A. Shchegolev. 8, 260 (1969) [8, 448 (1969)]

MAN'KO, V. I.
Spin Mixing in the Input Channels of the Reaction P^{31} (p, α_0) Si^{28}—K. V. Karadzhev, V. I. Man'ko, and F. E. Chukreev. 8, 184 (1969) [8, 321 (1969)]

The Helicity Group in the Relativistic Symmetric Kepler Problem—I. A. Kalkin and V. I. Manko. 8, 363 (1969) [8, 627 (1969)]

The Dynamical Symmetry of a Relativistic Charged Particle in a Constant Magnetic Field—I. A. Malkin and V. I. Man'ko. 8, 731 (1969) [8, 1264 (1969)]

MARKOV, P. K.
Summary Data on Elastic pp and pd Scattering at Small Angles and the Real Part of the pn-scattering Amplitude in Energy Interval 1-10 BeV—N. Kalkhazhav, P. A. Devinski, V. I. Zayachki, Z. M. Zlatanov, L. S. Zolin, L. F. Kirillova, Z. Korbel, P. K. Markov, Ngo Kuang Zui, Nguyen Din Ty, V. A. Nikitin, L. Rob, V. A. Sviridov, D. Tuvdendorzh, L. G. Khristov, Kh. M. Chernev, Chyong Byen, and M. G. Shafranova. 8, 196 (1969) [8, 342 (1969)]

MARINA, D. M.
Resonance Solutions of the πN Scattering Equations—V. I. Lend'yel and D. M. Marina. 8, 606 (1969) [8, 1044 (1969)]

MATINYAN, S. G.
Photoproduction of Neutral Vector Mesons at High Energies in the Regge-pole Model—L. N. Koval' and S. G. Matinyan. 8, 581 (1969) [8, 999 (1969)]

MEDVEDEV, B. V.
Concerning Unitarity of the S-matrix in Derivative-coupling Theories—B. V. Medvedev, M. K. Polivanov, and A. D. Sukhanov. 8, 228 (1969) [8, 396 (1969)]

MELENEVSKII, A. Z.
Investigation of the F^{19}(d,α) Reaction in the Energy Range 2.4—3.95 MeV—I. I. Zalyuboyskiĭ, A. P. Lobkovskiĭ, O. F. Nemets, and A. Z. Melenevskiĭ. 8, 384 (1969) [8, 663 (1969)]

MIGDAL, A. A.
Properties of the Pomeranchuk Pole and the Branch Cuts Related to it at Low Momentum Transfers—V. N. Gribov and A. A. Migdal. 8, 583 (1969) [8, 1002 (1969)]

Quasistable Pomeranchuk Pole and Diffraction Scattering at Ultrahigh Energies—V. N. Gribov and A. A. Migdal. 8, 703 (1969) [8, 1213 (1969)]

MIMINOSHVILI, Z. N.
Investigation of the Decay of Tm^{166} ($T_{1/2}$ = 7.7 hr)—Z. N. Miminoshvili and A. A. Sorokin. 8, 125 (1969) [8, 217 (1969)]

MOROZOV, L. N.
Radiochemical Investigation of Th^{229} Fission by Slow Neutrons—N. I. Borisova, R. A. Zenkova, B. V. Kurchatov, L. N. Morozov, V. I. Novgorodtseva, V. A. Pchelin, L. V. Chistyakov, and V. M. Shubko. 8, 404 (1969) [8, 695 (1969)]

MOROZOV, V. A.
Lifetime of the 242.8-keV Level in Er^{166}—G. T. Adylov, R. Babadzhanov, A. S. Kuchma, and V. A. Morozov. 8, 241 (1969) [8, 417 (1969)]

MOROZOV, V. M.
Small-angle Scattering of 4-MeV Neutrons by the Nuclei Cu, In, Sn, Pb, Bi, and U—G. V. Gorlov, N. S. Lebedeva, and V. M. Morozov. 8, 630 (1969) [8, 1086 (1969)]

MOSKALEV, A. N.
The Electromagnetic Radii of Tritium—A. N. Moskalev. 8, 423 (1969) [8, 727 (1969)]

Weak Interactions in Three-nucleon Systems—A. N. Moskalev. 8, 672 (1969) [8, 1156 (1969)]

MOSTOVOĬ, A.
Search for the Violation of Time Reversal Invariance in Beta Decay of Polarized Neutrons—B. G. Erozolimskiĭ, L. I. Bondarenko, Yu. A. Mostovoĭ, B. A. Obinyakov, V. I. Zakharova, and V. A. Titov. 8, 98 (1969) [8, 176 (1969)]

MURADYAN, G. P.
Neutron Resonance Parameters of Separated Antimony Isotopes—G. P. Muradyan, Yu. V. Adamchuk, and Yu. G. Shchepkin. 8, 495 (1969) [8, 852 (1969)]

MUS[illegible]KHANOV, M. M.
Photoproduction of Mesons by Polarized Photons and the Primakoff Effect—L. I. Lapidus and M. M. Musakhanov. 8, 462 (1969) [8, 793 (1969)]

MUZYCHKA, Yu. A.
Concerning the Stability of Superheavy Nuclei—Yu. A. Muzychka, V. V. Pashkevich, and V. M. Strutinskiĭ. 8, 417 (1969) [8, 716 (1969)]

MYALKOVSKAYA, N. M.
Interaction of 21-BeV Protons with Heavy Emulsion Nuclei in a Strong Magnetic Field—A. Azimov, U. G. Gulyamov, N. M. Myalkovskaya, L. N. Svechnikova, L. P. Chernova and G. M. Chernov. 8, 542 (1969) [8, 933 (1969)]

MYASISHCHEVA, G. G.
Residual Polarization of Negative Muons in Water at Different Temperatures and in Hydrocarbons—V. S. Evseev, V. S. Roganov, V. A. Chernogorova, G. G. Myasishcheva, and Yu. V. Obukhov. 8, 431 (1969) [8, 741 (1969)]

NAGY, L.
Measurement of the Relative Probability of Ternary Fission in U^{233}, U^{235}, U^{238}, and Th^{232}—L. Nagy, T. Nagy, and I. Vinnay. 8, 257 (1969) [8, 443 (1969)]

NAGY, T.
Measurement of the Relative Probability of Ternary Fission in U^{233}, U^{235}, U^{238}, and Th^{232}—L. Nagy, T. Nagy, and I. Vinnay. 8, 257 (1969) [8, 443 (1969)]

NARODETSKIĬ, I. M.
Study of the Reaction $\pi^- p \to \Delta^{++}(1236)\,\pi^-\pi^-$ at 3.25 BeV/c—I. A. Vetlitskiĭ, V. M. Guzhavin, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, I. M. Narodetskiĭ, V. T. Smolyankin, and A. P. Sokolov. 8, 433 (1969) [8, 743 (1969)]

Interference Phenomena in $X \to \pi\rho$ Decays and Determination of Quantum Numbers of the A_2 Meson—M. S. Dubovikov and I. M. Narodetskiĭ. 8, 716 (1969) [8, 1236 (1969)]

Radiative Corrections to the Decays $\Lambda \to N\pi$ and $K^0_{S} \to \pi^+\pi^-$—A. A. Belavin and I. M. Narodetsky. 8, 568 (1969) [8, 978 (1969)]

NAZAROV, U. K.
The Decay Scheme of Er^{158}—A. S. Abdurazakov, K. Ya. Gromov, Zh. T. Zhelev, V. G. Kalinnikov, Ya. Liptak, U. K. Nazarov, and Ya. Urbanets. 8, 367 (1969) [8, 633 (1969)]

NEDOPEKIN, V. G.
Long-range Particles with Z>2 in Ternary Fission of U^{235} by Thermal Neutrons—V. N. Andreev, V. G. Nedopekin, and V. I. Rogov. 8, 22 (1969) [8, 38 (1969)]

NEMETS, O. F.
Investigation of the $F^{19}(d,\alpha)$ Reaction in the Energy Range 2.4–3.95 MeV–I. I. Zalyuboyskiĭ, A. P. Lobkovskiĭ, O. F. Nemets, and A. Z. Melenevskiĭ. 8, 384 (1969) [8, 663 (1969)]

NEMILOV, Yu. A.
Spectroscopic Factors of 2p Transitions in the Reaction (d, p) on Nuclei of Medium Atomic Weight—K. A. Gridnev, K. I. Zherebtsova, V. A. Komarov, L. V. Krasnov, V. F. Litvin, and Yu. A. Nemilov. 8, 639 (1969) [8, 1101 (1969)]

NESTEROV, V. G.
Influence of the Parameters of the Optical Model on a Channel Analysis of Neutron Fission of Nuclei—S. B. Ermagambetov, V. E. Kolesov, V. G. Nesterov, G. N. Smirenkin, and A. S. Tishin. 8, 409 (1969) [8, 704 (1969)]

NHUONG, Doan
Phenomenological Analysis of Elastic Pion–deuteron Scattering—Doan Nhuong. 8, 531 (1969) [8, 914 (1969)]

NIKIFOROV, B. P.
Structure of the Weak Interaction $\Lambda + N \to N + N$ and SU (6) Symmetry—V. A. Filimonov and B. P. Nikiforov. 8, 40 (1969) [8, 71 (1969)]

NIKITIN, V. A.
Summary Data on Elastic pp and pd Scattering at Small Angles and the Real Part of the pn-scattering Amplitude in Energy Interval 1-10 BeV—N. Kalkhazhav, P. A. Devinski, V. I. Zayachki, Z. M. Zlatanov, L. S. Zolin, L. F. Kirillova, Z. Korbel, P. K. Markov, Ngo Kuang Zui, Nguyen Din Ty, V. A. Nikitin, L. Rob, V. A. Sviridov, D. Tuvdendorzh, L. G. Khristov, Kh. M. Chernev, Chyong Byen, and M. G. Shafranova. 8, 196 (1969) [8, 342 (1969)]

NIKOLAEV, N. N.
Possible Experiments in Search of Mirror K^0 Mesons—N. N. Nikolaev and L. B. Okun'. 8, 56 (1969) [8, 99 (1969)]

NIKOLAEV, F. A.
Cross Section for Absorption of γ Rays by Sulfur Nuclei in the Region of the Giant Dipole Resonance—B. S. Dolbilkin, A. I. Isakov, V. I. Korin, L. E. Lazareva, and F. A. Nikolaev. 8, 626 (1969) [8, 1080 (1969)]

NORMURATOV, F.
Fragment-mass Distribution from Heavy-ion Fission of Bismuth and Uranium—S. A. Karamyan, F. Normuratov, Yu. Ts. Oganesyan, Yu. E. Penionzhkevich, B. I. Pustyl'nik, and G. N. Flerov. 8, 401 (1969) [8, 690 (1969)]

NOVGORODTSEVA, V. I.
Radiochemical Investigation of Th^{229} Fission by Slow Neutrons—N. I. Borisova, R. A. Zenkova, B. V. Kurchatov, L. N. Morozov, V. I. Novgorodtseva, V. A. Pchelin, L. V. Chistyakov, and V. M. Shubko. 8, 404 (1969) [8, 695 (1969)]

OBINYAKOV, B. A.
Search for the Violation of Time Reversal Invariance in Beta Decay of Polarized Neutrons—B. G. Erozolimskiĭ, L. I. Bondarenko, Yu. A. Mostovoĭ, B. A. Obinyakov, V. I. Zakharova, and V. A. Titov. 8, 98 (1969) [8, 176 (1969)]

OBUKHOV, Yu. V.
Residual Polarization of Negative Muons in Water at Different Temperatures and in Hydrocarbons—V. S. Evseev, V. S. Roganov, V. A. Chernogorova, G. G. Myasishcheva, and Yu. V. Obukhov. 8, 431 (1969) [8, 741 (1969)]

OGANESYAN, Yu. Ts.
Observation of Isotopes of Po and At Among Fission Fragments from Bombardment of U^{238} By Ne^{20} and Ar^{40} Ions—I. V. Kuznetsov, N. S. Mal'tseva, Yu. Ts. Oganesyan, A. M. Sukhov, and V. A. Shchegolev. 8, 260 (1969) [8, 448 (1969)]

Fragment-mass Distribution from Heavy-ion Fission of Bismuth and Uranium—S. A. Karamyan, F. Normuratov, Yu. Ts. Oganesyan, Yu. E. Penionzhkevich, B. I. Pustyl'nik, and G. N. Flerov. 8, 401 (1969) [8, 690 (1969)]

OKOROKOV, V. V.
Neutron Polarization in (d, n) Reactions in Medium-Mass Nuclei—I. I. Levintov, V. V. Okorokov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 8 (1969) [8, 14 (1969)]

The Reactions $Ni^{58,60,62,64}$ (d,n)$Cu^{59,61,63,65}$ and $Zn^{64,66,68}$(d,n)$Ga^{65,67,69}$—V. V. Okorokov, V. P. Bochin, V. S. Romanov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 387 (1969) [8, 668 (1969)]

Particle-hole Configurations of the Even-even Nuclei Ni^{60}, Zn^{64}, and Zn^{66}—V. V. Okorokov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 505 (1969) [8, 869 (1969)]

OKUN', L. B.
Possible Experiments in Search of Mirror K^0 Mesons—N. N. Nikolaev and L. B. Okun'. 8, 56 (1969) [8, 99 (1969)]

OMELAENKO, A. S.
Elastic and Inelastic Scattering of High Energy Electrons by Si^{28} Nuclei—G. A. Savitskiĭ, N. G. Afanas'ev, I. S. Gul'karov, V. D. Kovalev, A. S. Omelaenko, V. M. Khvastunov, and N. G. Shevchenko. 8, 376 (1969) [8, 648 (1969)]

OSTROUMOV, V. I.
The Reaction $C^{12}(\pi^+, 2p)d2\alpha$ With 117-MeV π^+ Mesons—V. F. Kosmach, A. A. Kotov, and V. I. Ostroumov. 8, 18 (1969) [8, 32 (1969)]

The C^{12} (π, π') 3α Reaction at 117 MeV—A. G. Banin, V. F. Kosmach, and V. I. Ostroumov. 8, 399 (1969) [8, 688 (1969)]

PALLA, G.
On the Anomalous Forward Scattering of 14-MeV Neutrons by Uranium—A. Ádám, F. Deak, L. Jéki, A. Kiss, Z. Kövessy, G. Palla, and P. Hrasko. 8, 255 (1969) [8, 439 (1969)]

PASHKEVICH, V. V.
Concerning the Stability of Superheavy Nuclei—Yu. A. Muzychka, V. V. Pashkevich, and V. M. Strutinskiĭ. 8, 417 (1969) [8, 716 (1969)]

Equilibrium Deformations of Nuclei in the Region $50 < Z < 82$ and $50 < N < 82$—D. A. Arsen'ev, L. A. Malov, V. V. Pashkevich, A. Sobiczewski, and V. G. Solov'ev. 8, 514 (1969) [8, 883 (1969)]

PAVLICHENKOV, I. M.
Charge of the Quadrupole Moment of Deformed Nuclei Under the Influence of Rotation—Yu. T. Grin' and I. M. Pavlichenkov. 8, 279 (1969) [8, 477 (1969)]

PAWLIKOWSKI, A.
The Accuracy of Approximate Methods in the Superfluid Nuclear Model—P. Boschan, A. Pawlikowski, and W. Rybarska. 8, 420 (1969) [8, 721 (1969)]

PCHELIN, V. A.
Radiochemical Investigation of Th^{229} Fission by Slow Neutrons—N. I. Borisova, R. A. Zenkova, B. V. Kurchatov, L. N. Morozov, V. I. Novgorodtseva, V. A. Pchelin, L. V. Chistyakov, and V. M. Shubko. 8, 404 (1969) [8, 695 (1969)]

PENIONZHKEVICH, Yu. E.
Fragment-mass Distribution from Heavy-ion Fission of Bismuth and Uranium—S. A. Karamyan, F. Normuratov, Yu. Ts. Oganesyan, Yu. E. Penionzhkevich, B. I. Pustyl'nik, and G. N. Flerov. 8, 401 (1969) [8, 690 (1969)]

PETRAUSKAS, A. K.
Magnetic-Dipole Moments of Nuclei in the Approximation of Wigner Supermultiplets—A. K. Petrauskas and V. V. Vanagas. 8, 270 (1969) [8, 463 (1969)]

PETROV, G. A.
Anisotropy of γ Radiation in Slow-neutron Fission of U^{235}, as a Function of Fragment Combined Kinetic Energy and Mass Ratio—G. V. Val'skiĭ, G. A. Petrov, and Yu. S. Pleva. 8, 171 (1969) [8, 297 (1969)]

PLEVA, Yu. S.
Anisotropy of γ Radiation in Slow-neutron Fission of U^{235}, as a Function of Fragment Combined Kinetic Energy and Mass Ratio—G. V. Val'skiĭ, G. A. Petrov, and Yu. S. Pleva. 8, 171 (1969) [8, 297 (1969)]

PODGORETSKIĬ, M. I.
A Geometric Test of Isotopic Invariance of Elementary Particles—V. G. Grishin and M. I. Podgoretskiĭ. 8, 217 (1969) [8, 379 (1969)]

POLIVANOV, M. K.
Concerning Unitarity of the S-matrix in Derivative-coupling Theories—B. V. Medvedev, M. K. Polivanov, and A. D. Sukhanov. 8, 228 (1969) [8, 396 (1969)]

POLUNIN, Yu. P.
Investigation of the Reaction D(d, p)H^3 with a Polarized Deuteron Beam—B. P. Ad'yasevich, V. G. Antonenko, D. A. Kuznetsov, Yu. P. Polunin, and D. E. Fomenko. 8, 154 (1969) [8, 267 (1969)]

PONOMAREV, L. A.
On $\Xi \to \Lambda\pi\gamma$ Decays—V. I. Zakharov, L. A. Kondratyuk, and L. A. Ponomarev. 8, 60 (1969) [8, 106 (1969)]

Bremsstrahlung and Determination of Electromagnetic Parameters of Particles—V. I. Zakharov, L. A. Kondratyuk, and L. A. Ponomarev. 8, 456 (1969) [8, 783 (1969)]

The Decay $K_2^0 \to \pi^+\pi^-e^+e^-$ and the Electromagnetic Radius of the $K_2^0 \to K_1^0$ Transition—V. I. Zakharov, L. A. Kondratyuk, and L. A. Ponomarev. 8, 571 (1969) [8, 983 (1969)]

POPOV, A. B.
Neutron Resonances of Nd Isotopes—E. N. Karzhavina, Nguyen Nguyen Fong, A. B. Popov, and A. I. Taskaev. 8, 371 (1969) [8, 639 (1969)]

PUSTOVALOV, V. V.
The Three Body Problem. The K-harmonics Method in Problems Involving the Continuum Spectrum—B. N. Zakhar'ev, V. V. Pustovalov, and V. D. Éfros. 8, 234

PUSTYL'NIK, B. I.
Fragment-mass Distribution from Heavy-ion Fission of Bismuth and Uranium—S. A. Karamyan, F. Normuratov, Yu. Ts. Oganesyan, Yu. E. Penionzhkevich, B. I. Pustyl'nik, and G. N. Flerov. 8, 401 (1969) [8, 690 (1969)]

PYATOV, N. I.
N-forbidden β Transitions in Deformed Nuclei in the Approximation of a Finite Potential with Diffuse Edge—F. A. Gareev, B. N. Kalinkin, N. I. Pyatov, and M. I. Cherneĭ. 8, 176 (1969) [8, 305 (1969)]

RADUTSKII, G. M.
Two-photon Decays of 2^+ Mesons—G. M. Radutskiĭ. 8, 65 (1969) [8, 115 (1969)]

RAKHIMOV, A. S.
Spectra of γ Rays Produced Upon Capture of Thermal Neutrons by Nd Isotopes—L. V. Groshev, V. N. Dvoretskiĭ, A. M. Demidov, and A. S. Rakhimov. 8, 619 (1969) [8, 1067 (1969)]

REKALO, M. P.
Photoproduction of Mesons on Nucleons, Regge Poles, and SU(3) Symmetry—M. P. Rekalo. 8, 78 (1969) [8, 138 (1969)]

Vector Mesons and Scattering Lengths for Various Hadron Elastic Interaction Processes—M. P. Rekalo. 8, 334 (1969) [8, 575 (1969)]

Diffraction Scattering of Hadrons at High Energies and Quark Model of Elementary Particle Interactions—A. I. Akhiezer and M. P. Rekalo. 8, 469 (1969) [8, 806 (1969)]

ROB, L.
Summary Data on Elastic pp and pd Scattering at Small Angles and the Real Part of the pn-scattering Amplitude in Energy Interval 1-10 BeV—N. Kalkhazhav, P. A. Devinski, V. I. Zayachki, Z. M. Zlatanov, L. S. Zolin, L. F. Kirillova, Z. Korbel, P. K. Markov, Ngo Kuang Zui, Nguyen Din Ty, V. A. Nikitin, L. Rob, V. A. Sviridov, D. Tuvdendorzh, L. G. Khristov, Kh. M. Chernev, Chyong Byen, and M. G. Shafranova. 8, 196 (1969) [8, 342 (1969)]

ROGANOV, V. S.
Residual Polarization of Negative Muons in Water at Different Temperatures and in Hydrocarbons—V. S. Evseev, V. S. Roganov, V. A. Chernogorova, G. G. Myasishcheva, and Yu. V. Obukhov. 8, 431 (1969) [8, 741 (1969)]

ROGOV, V. I.
Long-range Particles with Z>2 in Ternary Fission of U^{235} by Thermal Neutrons—V. N. Andreev, V. G. Nedopekin, and V. I. Rogov. 8, 22 (1969) [8, 38 (1969)]

ROGOV, Yu. K.
Scattering of Neutrons by Chemically Bound Protons—A. I. Baz', V. F. Demin, I. I. Kuz'min, and Yu. K. Rogov. 8, 37 (1969) [8, 65 (1969)]

ROĬZEN, I. I.
On the Asymptotic Behavior of the Amplitudes for Inelastic Binary Processes—I. I. Roĭzen. 8, 332 (1969) [8, 571 (1969)]

ROMANOV, V. S.
The Reactions $Ni^{58, 60, 62, 64}$ (d,n)$Cu^{59, 61, 63, 65}$ and $Zn^{64, 66, 68}$(d,n)$Ga^{65, 67, 69}$—V. V. Okorokov, V. P. Bochin, V. S. Romanov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 387 (1969) [8, 668 (1969)]

RUDAK, É. A.
On a Method of Calculating Slater Integrals—É. A. Rudak. 8, 415 (1969) [8, 713 (1969)]

RYBARSKA, W.
The Accuracy of Approximate Methods in the Superfluid Nuclear Model—P. Boschan, A. Pawlikowski, and W. Rybarska. 8, 420 (1969) [8, 721 (1969)]

SADKOVSKIĬ, V.
The Reaction C^{13}(d, α)B^{11} with 6.3-MeV Deuterons—A. E. Denisov, R. P. Kolalis V. Sadkovskiĭ, and E. D. Teterin. 8, 153 (1969) [8, 265 (1969)]

SAMKOV, L. M.
Production of ρ Mesons in πN Collisions and the Hypothesis of ρ Meson Coupling to the Conserved Current—N. N. Achasov and L. M. Samkov. 8, 696 (1969) [8, 1201 (1969)]

SAVCHENKO, O. V.
Measurement of the Probability of Heavy Charged Particle Emission in Capture of μ^--mesons by Neon Nuclei—V. I. Komarov and O. V. Savchenko. 8, 239 (1969) [8, 415 (1969)]

SAVCHENKO, O. Ya.
Lower Bound of the Energy of a System of Interacting Particles in the Framework of Schrödinger's Equation—O. Ya. Savchenko. 8, 728 (1969) [8, 1259 (1969)]

SAVITSKIĬ, G. A.
Elastic and Inelastic Scattering of High Energy Electrons by Si^{28} Nuclei—G. A. Savitskiĭ, N. G. Afanas'ev, I. S. Gul'karov, V. D. Kovalev, A. S. Omelaenko, V. M. Khvastunov, and N. G. Shevchenko. 8, 376 (1969) [8, 648 (1969)]

Radii of the Charge and Mass Distributions in Nuclei—N. G. Afanas'ev, N. G. Shevchenko, G. A. Savitskiĭ, I. S. Gul'karov, and V. M. Khavastunov. 8, 646 (1969) [8, 1112 (1969)]

SAVRIN, V. I.

Semiphenomenological Analysis of the Scattering Amplitude at High Energies—V. I. Savrin and O. A. Khrustalev. 8, 591 (1969) [8, 1016 (1969)]

SEMENKO, S. F.

Optical Anisotropy of Isomers in the Region of Transuranium Elements—A. M. Baldin, S. F. Semenko, and B. A. Tupulov. 8, 187 (1969) [8, 326 (1969)]

SEMIKOZ, V. G.

Asymmetry in the Electroproduction $e^- + p \rightarrow e^- + n + \pi^+$ and Electromagnetic Form Factor of π^+ Meson—V. G. Goryachkin and V. G. Semikoz. 8, 452 (1969) [8, 776 (1969)]

SERDYUTSKIĬ, V. A.

Vector Dominance Model and Sum Rule for γp Interaction at High Energies—S. B. Gerasimov and V. A. Serdyutskiĭ. 8, 323 (1969) [8, 554 (1969)]

SEREZHIN, V. M.

Neutron Polarization in (d, n) Reactions in Medium-Mass Nuclei—I. I. Levintov, V. V. Okorokov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 8 (1969) [8, 14 (1969)]

The Reactions $Ni^{58, 60, 62, 64}$ (d,n)$Cu^{59, 61, 63, 65}$ and $Zn^{64, 66, 68}$(d,n)$Ga^{65, 67, 69}$—V. V. Okorokov, V. P. Bochin, V. S. Romanov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 387 (1969) [8, 668 (1969)]

Particle-hole Configurations of the Even-even Nuclei Ni^{60}, Zn^{64}, and Zn^{66}—V. V. Okorokov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 505 (1969) [8, 869 (1969)]

SERGEENKOV, Yu. V.

Relative Internal Conversion Coefficients of the Gamma Transitions in Hf^{180}—V. S. Gvozdev, V. N. Grigor'ev, and Yu. V. Sergeenkov. 8, 1 (1969) [8, 3 (1969)]

SHABALIN, E. P.

On a Renormalizable Theory of Weak Interactions—E. P. Shabalin. 8, 42 (1969) [8, 74 (1969)]

Weak-Interaction Effects in Scattering of Electrons and Muons by Protons—G. A. Lobov and E. P. Shabalin. 8, 564 (1969) [8, 971 (1969)]

SHAFRANOVA, M. G.

Summary Data on Elastic pp and pd Scattering at Small Angles and the Real Part of the pn-scattering Amplitude in Energy Interval 1-10 BeV—N. Kalkhazhav, P. A. Devinski, V. I. Zayachki, Z. M. Zlatanov, L. S. Zolin, L. F. Kirillova, Z. Korbel, P. K. Markov, Ngo Kuang Zui, Nguyen Din Ty, V. A. Nikitin, L. Rob, V. A. Sviridov, D. Tuvdendorzh, L. G. Khristov, Kh. M. Chernev, Chyong Byen, and M. G. Shafranova. 8, 196 (1969) [8, 342 (1969)]

SHAKHNAZARYAN, Yu. G.

Production of the A_2 Meson in Electromagnetic Processes—Yu. G. Shakhnazaryan. 8, 574 (1969) [8, 987 (1969)]

SHAPIROV, Sh. Sh.

Spectroscopy of the Nucleus In^{111}—R. B. Begzhanov, M. Kh. Khodzhaev, and Sh. Sh. Shapirov. 8, 142 (1969) [8, 247 (1969)]

SHARDANOV, A. Kh.

The Reaction $B^{10}(\gamma,p)Be^9$—A. Kh. Shardanov and B. A. Yur'ev. 8, 245 (1969) [8, 424 (1969)]

SHAVTVALOV, L. Ya.

Study of the Radiation of $_{34}Se^{73}_{39}$—M. P. Akhmed, K. A Baskova, S. S. Vasil'ev, and L. Ya. Shavtvalov. 8, 138 (1969) [8, 240 (1969)]

SHCHEGOLEV, V. A.

Observation of Isotopes of Po and At Among Fission Fragments from Bombardment of U^{238} By Ne^{20} and Ar^{40} Ions—I. V. Kuznetsov, N. S. Mal'tseva, Yu. Ts. Oganesyan, A. M. Sukhov, and V. A. Shchegolev. 8, 260 (1969) [8, 448 (1969)]

SHCHELKACHEV, A. V.

Allowance for Electromagnetic Effects in the Dispersion Relations for Forward Scattering—L. D. Solov'ev and A. V. Shchelkachev. 8, 316 (1969) [8, 540 (1969)]

SHCHEPKIN, Yu. G.

Neutron Resonance Parameters of Separated Antimony Isotopes—G. P. Muradyan, Yu. V. Adamchuk, and Yu. G. Shchepkin. 8, 495 (1969) [8, 852 (1969)]

SHEBEKO, A. V.

Diffraction Theory of Stripping Reactions—A. V. Shebeko and E. V. Inopin. 8, 664 (1969) [8, 1142 (1969)]

SHEFTEL', M. B.

Two-dimensional Expansions of Relativistic Amplitudes, Regge Trajectories and Daughter Poles—P. Winternitz, Ya. A. Smorodinskiĭ, and M. B. Sheftel'. 8, 485 (1969) [8, 833 (1969)]

SHEKHTER, V. M.

Interference Phenomena in the τ Decay of Neutral K Mesons—V. V. Anisovich and V. M. Shekhter. 8, 552 (1969) [8, 948 (1969)]

SHELEPIN, L. A.

Relation Between the Clebsch-Gordon Coefficients of Different SU(n) Groups and Symmetries of Physical Systems—V. P. Karasev and L. A. Shelepin. 8, 357 (1969) [8, 615 (1969)]

Topological Characteristics in the Theory of Angular Momenta—L. A. Shelepin. 8, 481 (1969) [8, 827 (1969)]

SHERMAN, S. G.

Study of the Reaction $\pi^- p \rightarrow \pi^- p\gamma$ at 340 MeV—T. D. Blokhintseva, A. V. Kravtsov and S. G. Sherman. 8, 539 (1969) [8, 928 (1969)]

SHEVCHENKO, N. G.

Elastic and Inelastic Scattering of High Energy Electrons by Si^{28} Nuclei—G. A. Savitskiĭ, N. G. Afanas'ev, I. S. Gul'karov, V. D. Kovalev, A. S. Omelaenko, V. M. Khvastunov, and N. G. Shevchenko. 8, 376 (1969) [8, 648 (1969)]

Radii of the Charge and Mass Distributions in Nuclei—N. G. Afanas'ev, N. G. Shevchenko, G. A. Savitskiĭ, I. S. Gul'karov, and V. M. Khavastunov. 8, 646 (1969) [8, 1112 (1969)]

SHITIKOVA, K. V.

Factorization of Many-Particle Fractional Parentage Coefficients—Yu. F. Smirnov, K. V. Shitikova, and S. H. El-Samarai. 8, 275 (1969) [8, 470 (1969)]

SHUBIN, Yu. N.

Influence of Discrete Structure of Single-particle Spectrum on the Thermodynamic Functions of Nuclei—A. V. Ignatyuk and Yu. N. Shubin. 8, 660 (1969) [8, 1135 (1969)]

SHUBKO, V. M.

Radiochemical Investigation of Th^{229} Fission by Slow Neutrons—N. I. Borisova, R. A. Zen'kova, B. V. Kurchatov, L. N. Morozov, V. I. Novgorodtseva, V. A. Pchelin, L. V. Chistyakov, and V. M. Shubko. 8, 404 (1969) [8, 695 (1969)]

SIDORENKO, Z. S.

Cross Section for Backward Elastic pd Scattering in the Energy Region 1-3.5 BeV—Yu. D. Bayukov, N. G. Birger, V. S. Borisov, G. K. Bysheva, L. S. Vorob'ev, L. L. Gol'din, L. N. Kondrat'ev, M. M. Korotkov, G. A. Leskin, Z. S. Sidorenko, L. I. Sokolov, G. K. Tumanov, V. B. Fedorov, and V. D. Khovanskiĭ. 8, 199 (1969) [8, 348 (1969)]

SLABOSPITSKIĬ, R. P.
Polarization of Photons Elastically Scattered by Carbon—R. P. Slabospitskiĭ, G. B. Andreev, I. D. Loptako, V. I. Boroviev, V. A. Lutsik, and A. Ya. Taranov. 8, 502 (1969) [8, 865 (1969)]

SLAVNOV, A. A.
A Sufficient Condition for the Renormalizability of Theories of Vector Fields with Nonzero Mass—A. A. Slavnov. 8, 226, (1969) [8, 392 (1969)]

SLETTEN, G.
Investigation of (d, p) and (d, t) Reactions Leading to Spontaneously Fissile Isomeric States—S. Bjornholm, I. Borggreen, Yu. P. Gangrskiĭ, and G. Sletten. 8, 267 (1969) [8, 459 (1969)]

SLIV, L. A.
Residual Interactions of Particles in the Nucleus—I. M. Band, V. N. Guman, L. A. Sliv, and Yu. I. Kharitonov. 8, 650 (1969) [8, 1118 (1969)]

SMIRENKIN, G. N.
Multiparameter Study of the Anisotropy of γ-Ray Emission in Fission of U^{235}—O. I. Ivanov, Yu. A. Kushnir and G. N. Smirenkin. 8, 29, (1969) [8, 50, (1969)]

SMIRNOV, Yu. F.
Factorization of Many-Particle Fractional Parentage Coefficients—Yu. F. Smirnov, K. V. Shitikova, and S. H. El-Samarai. 8, 275 (1969) [8, 470 (1969)]

SMIRENKIN, G. N.
Influence of the Parameters of the Optical Model on a Channel Analysis of Neutron Fission of Nuclei—S. B. Ermagambetov, V. E. Kolesov, V. G. Nesterov, G. N. Smirenkin, and A. S. Tishin. 8, 409 (1969) [8, 704 (1969)]

SMOLYANKIN, V. T.
Study of the Quasi Two-particle Processes $\pi^- p \to \rho^0 N^{*0}$ (1238), $\pi^- p \to \omega^0 N^{*0}$ (1238), and $\pi^- p \to pA_1^-$ at a Momentum of 3.25 BeV/c —I. A. Vetlitskiĭ, V. M. Guzhavin, A. B. Kaĭdalov, B. A. Karnakov, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, V. T. Smolyankin, and A. P. Sokolov. 8, 192 (1969) [8, 335 (1969)]

Study of the Reaction $\pi^- p \to \Delta^{++}$ (1236) $\pi^- \pi^-$ at 3.25 BeV/c—I. A. Vetlitskiĭ, V. M. Guzhavin, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, I. M. Narodetskiĭ, V. T. Smolyankin, and A. P. Sokolov. 8, 433 (1969) [8, 743 (1969)]

SMORODINSKIĬ, Ya. A.
Two-dimensional Expansions of Relativistic Amplitudes, Regge Trajectories and Daughter Poles—P. Winternitz, Ya. A. Smorodinskiĭ, and M. B. Sheftel'. 8, 485 (1969) [8, 833 (1969)]

SMOTRYAEV, V. A.
Neutron Polarization in (d, n) Reactions in Medium-Mass Nuclei—I. I. Levintov, V. V. Okorokov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 8 (1969) [8, 14 (1969)]

The Reactions $Ni^{58,60,62,64}$ (d,n)$Cu^{58,61,63,65}$ and $Zn^{64,66,68}$(d,n)$Ga^{65,67,69}$—V. V. Okorokov, V. P. Bochin, V. S. Romanov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 387 (1969) [8, 668 (1969)]

Particle-hole Configurations of the Even-even Nuclei Ni^{60}, Zn^{64}, and Zn^{66}—V. V. Okorokov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 505 (1969) [8, 869 (1969)]

SOBICZEWSKI, A.
Equilibrium Deformations of Nuclei in the Region $50 < Z < 82$ and $50 < N < 82$—D. A. Arsen'ev, L. A. Malov, V. V. Pashkevich, A. Sobiczewski, and V. G. Solov'ev. 8, 514 (1969) [8, 883 (1969)]

SOKOLOV, A. P.
Study of the Quasi Two-particle Processes $\pi^- p \to \rho^0 N^{*0}$ (1238), $\pi^- p \to \omega^0 N^{*0}$ (1238), and $\pi^- p \to pA_1^-$ at a Momentum of 3.25 BeV/c —I. A. Vetlitskiĭ, V. M. Guzhavin, A. B. Kaĭdalov, B. A. Karnakov, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, V. T. Smolyankin, and A. P. Sokolov. 8, 192 (1969) [8, 335 (1969)]

Study of the Reaction $\pi^- p \to \Delta^{++}$ (1236) $\pi^- \pi^-$ at 3.25 BeV/c—I. A. Vetlitskiĭ, V. M. Guzhavin, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, I. M. Narodetskiĭ, V. T. Smolyankin, and A. P. Sokolov. 8, 433 (1969) [8, 743 (1969)]

SOKOLOV, L. I.
Cross Section for Backward Elastic pd Scattering in the Energy Region 1-3.5 BeV—Yu. D. Bayukov, N. G. Birger, V. S. Borisov, G. K. Bysheva, L. S. Vorob'ev, L. L. Gol'din, L. N. Kondrat'ev, M. M. Korotkov, G. A. Leskin, Z. S. Sidorenko, L. I. Sokolov, G. K. Tumanov, V. B. Fedorov, and V. D. Khovanskiĭ. 8, 199 (1969) [8, 348 (1969)]

SOKOLOV, L. S.
Investigation of Anomalies in Elastic Scattering of 136.-MeV Deuterons by Nuclei in the Region N = 50—I. N. Korostova, L. S. Sokolov, V. V. Tokarevskiĭ, I. P. Chernov, and A. A. Yatis. 8, 6 (1969) [8, 10 (1969)]

SOKOLOV, V. V.
Schwinger Terms and the Interaction Hamiltonian in Quantum Electrodynamics—V. V. Sokolov. 8, 326 (1969) [8, 559 (1969)]

SOKOL'SKIĬ, V. V.
Cross Sections of the (n, p) and (n, α) Reactions at 14.8 MeV—B. Levkovskiĭ, G. E. Kovel'skaya, G. P. Vinitskaya, V. M. Stepanov, and V. V. Sokol'skiĭ. 8, 4 (1969) [8, 7 (1969)]

SOLOV'EV, L. D.
Dispersion Sum Rules and the Electromagnetic Properties of High Resonances—I. G. Aznauryan and L. D. Solov'ev. 8, 73 (1969) [8, 129 (1969)]

Allowance for Electromagnetic Effects in the Dispersion Relations for Forward Scattering—L. D. Solov'ev and A. V. Shchelkachev. 8, 316 (1969) [8, 540 (1969)]

SOLOV'EV, V. G.
Equilibrium Deformations of Nuclei in the Region $50 < Z < 82$ and $50 < N < 82$—D. A. Arsen'ev, L. A. Malov, V. V. Pashkevich, A. Sobiczewski, and V. G. Solov'ev. 8, 514 (1969) [8, 883 (1969)]

SOLOV'EV, V. V.
Odd-T Spin Correlations in Leptonic Decays of Baryons—V. V. Solov'ev and I. S. Tsukerman. 8, 299 (1969) [8, 513 (1969)]

SOLOV'EVA, Z. I.
Energy Distribution of α Particles Formed in Thermal-Neutron Fission of Pu^{241} and Am^{241}—Z. I. Solov'eva. 8, 264 (1969) [8, 454 (1969)]

SOROKIN, A. A.
Investigation of the Decay of Tm^{166} ($T_{1/2}$ = 7.7 hr)—Z. N. Miminoshvili and A. A. Sorokin. 8, 125 (1969) [8, 217 (1969)]

STEPANOV, V. M.
Cross Sections of the (n, p) and (n, α) Reactions at 14.8 MeV—B. Levkovskiĭ, G. E. Kovel'skaya, G. P. Vinitskaya, V. M. Stepanov, and V. V. Sokol'skiĭ. 8, 4 (1969) [8, 7 (1969)]

STEPANOVSKIĬ, Yu. P.
On the Calculation of the Probabilities of the Scattering of Polarized Particles with Spin ½—I. V. Dogyust and Yu. P. Stepanovskiĭ. 8, 219 (1969) [8, 382 (1969)]

STROGANOV, Yu. G.
Analysis of the Reactions $\pi + N \to \pi + \pi + N$ at T_π = 350-600 MeV. Determination of the Contribution of the Triangular Diagram and Estimate of the $\pi\pi$ Scattering Amplitude at Low Energies—V. V. Anisovich, E. M. Levin, A. K. Likhoded, and Yu. G. Stroganov. 8, 339 (1969) [8, 583 (1969)]

STRUTINSKII, V. M.
Concerning the Stability of Superheavy Nuclei—Yu. A. Muzychka, V. V. Pashkevich, and V. M. Strutinskiĭ. 8, 417 (1969) [8, 716 (1969)]

SUKHANOV, A. D.
Concerning Unitarity of the S-matrix in Derivative-coupling Theories—B. V. Medvedev, M. K. Polivanov, and A. D. Sukhanov. 8, 228 (1969) [8, 396 (1969)]

SUKHOV, A. M.
Observation of Isotopes of Po and At Among Fission Fragments from Bombardment of U^{238} By Ne^{20} and Ar^{40} Ions—I. V. Kuznetsov, N. S. Mal'tseva, Yu. Ts. Oganesyan, A. M. Sukhov, and V. A. Shchegolev. 8, 260 (1969) [8, 448 (1969)]

SVECHNIKOVA, L. N.
Interaction of 21-BeV Protons with Heavy Emulsion Nuclei in a Strong Magnetic Field—A. Azimov, U. G. Gulyamov, N. M. Myalkovskaya, L. N. Svechnikova, L. P. Chernova and G. M. Chernov. 8, 542 (1969) [8, 933 (1969)]

SVIRIDOV, V. A.
Summary Data on Elastic pp and pd Scattering at Small Angles and the Real Part of the pn-scattering Amplitude in Energy Interval 1-10 BeV—N. Kalkhazhav, P. A. Devinski, V. I. Zayachki, Z. M. Zlatanov, L. S. Zolin, L. F. Kirillova, Z. Korbel, P. K. Markov, Ngo Kuang Zui, Nguyen Din Ty, V. A. Nikitin, L. Rob, V. A. Sviridov, D. Tuvdendorzh, L. G. Khristov, Kh. M. Chernev, Chyong Byen, and M. G. Shafranova. 8, 196 (1969) [8, 342 (1969)]

TAKIBAEV, Zh. S.
Proton Neutron Interactions in the 20 GeV Energy Region—Zh. S. Takibaev, É. G. Boos and R. A. Tursunov. 8, 203 (1969) [8, 354 (1969)]

TARANOV, A. Ya.
Polarization of Photons Elastically Scattered by Carbon—R. P. Slabospitskiĭ, G. B. Andreev, I. D. Loptako, V. I. Boroviev, V. A. Lutsik, and A. Ya. Taranov. 8, 502 (1969) [8, 865 (1969)]

TARASKO, M. Z.
Energy and Mass Distribution of Fragments from Fission of U^{235} by Monoenergetic Neutrons from 0 to 15.5 MeV—P. P. D'yachenko, B. D. Kuz'minov, and M. Z. Tarasko. 8, 165 (1969) [8, 286 (1969)]

TARASOV, A. V.
On the Bremsstrahlung Amplitude in Nucleon-nucleon Collisions—A. V. Tarasov. 8, 577 (1969) [8, 992 (1969)]
Observable Quantities in Bremsstrahlung in the Low Approximation—A. V. Tarasov. 8, 691 (1969) [8, 1191 (1969)]

TASKAEV, A. I.
Neutron Resonances of Nd Isotopes—E. N. Karzhavina, Nguyen Nguyen Fong, A. B. Popov, and A. I. Taskaev. 8, 371 (1969) [8, 639 (1969)]

TERENT'EV, A. M.
Penetrability of the Nuclear Potential Barrier with Diffuse Strong-interaction Potential of the Woods-Saxon Type—F. P. Denisov and A. M. Terent'ev. 8, 33 (1969) [8, 56 (1969)]

TERENT'EV, M. V.
On the Verification of the Linearity of the Equations of Quantum Electrodynamics in Some High Energy Experiments—B. V. Geshkenbeĭn and M. V. Terent'ev. 8, 67 (1969) [8, 119 (1969)]
The Process $e^+e^- \to 3\gamma$ at High Energies—B. V. Geshkenbeĭn and M. V. Terent'ev. 8, 321 (1969) [8, 550 (1969)]

TETERIN, E. D.
The Reaction $C^{13}(d, \alpha)B^{11}$ with 6.3-MeV Deuterons—A. E. Denisov, R. P. Kolalis V. Sadkovskiĭ, and E. D. Teterin. 8, 153 (1969) [8, 265 (1969)]

TIKHOMIROV, G. D.
Search for Baryon NKπ Resonance with Strangeness S = +1 in the Reaction $\pi^- p \to NK\bar{K}\pi$ at an Incident π^--Meson Momentum of 3.25 BeV/c—V. V. Vladimirskiĭ, V. K. Grigor'ev, A. P. Grishin, I. A. Erofeev, L. V. Il'kov, G. D. Tikhomirov, K. A. Trostina, and F. M. Filler. 8, 190 (1969) [8, 331 (1969)]
Investigation of Spin and Parity of the A_2 Meson—V. V. Vladimirskiĭ, O. N. Vasil'eva, G. S. Lomkatsi, and G. D. Tikhomirov. 8, 295 (1969) [8, 507 (1969)]

TISHIN, A. S.
Influence of the Parameters of the Optical Model on a Channel Analysis of Neutron Fission of Nuclei—S. B. Ermagambetov, V. E. Kolesov, V. G. Nesterov, G. N. Smirenkin, and A. S. Tishin. 8, 409 (1969) [8, 704 (1969)]

TITOV, V. A.
Search for the Violation of Time Reversal Invariance in Beta Decay of Polarized Neutrons—B. G. Erozolimskiĭ, L. I. Bondarenko, Yu. A. Mostovoĭ, B. A. Obinyakov, V. I. Zakharova, and V. A. Titov. 8, 98 (1969) [8, 176 (1969)]

TOKAREVSKII, V. V.
Investigation of Anomalies in Elastic Scattering of 136.-MeV Deuterons by Nuclei in the Region N = 50—I. N. Korostova, L. S. Sokolov, V. V. Tokarevskiĭ, I. P. Chernov, and A. A. Yatis. 8, 6 (1969) [8, 10 (1969)]

TOKTAROV, K.
Fluctuation Mechanism of Emission of High-energy He^4 in Nuclear Spallation Processes—K. Toktarov. 8, 546 (1969) [8, 940 (1969)]

TOLCHENKOV, D. L.
Neutron Polarization in (d, n) Reactions in Medium-Mass Nuclei—I. I. Levintov, V. V. Okorokov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 8 (1969) [8, 14 (1969)]
The Reactions $Ni^{58,60,62,64}$ (d,n)$Cu^{59,61,63,65}$ and $Zn^{64,66,68}$(d,n)$Ga^{65,67,69}$—V. V. Okorokov, V. P. Bochin, V. S. Romanov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 387 (1969) [8, 668 (1969)]
Particle-hole Configurations of the Even-even Nuclei Ni^{60}, Zn^{64}, and Zn^{66}—V. V. Okorokov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 505 (1969) [8, 869 (1969)]
Isospin Dependence of the Nuclear Potential—D. L. Tolchenkov. 8, 636 (1969) [8, 1096 (1969)]

TROSTIN, I. S.
Neutron Polarization in (d, n) Reactions in Medium-Mass Nuclei—I. I. Levintov, V. V. Okorokov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 8 (1969) [8, 14 (1969)]
The Reactions $Ni^{58,60,62,64}$ (d,n)$Cu^{59,61,63,65}$ and $Zn^{64,66,68}$(d,n)$Ga^{65,67,69}$—V. V. Okorokov, V. P. Bochin, V. S. Romanov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 387 (1969) [8, 668 (1969)]
Particle-hole Configurations of the Even-even Nuclei Ni^{60}, Zn^{64}, and Zn^{66}—V. V. Okorokov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 505 (1969) [8, 869 (1969)]

Search for Baryon NKπ Resonance with Strangeness S = +1 in the Reaction $\pi^-p \to NK\bar{K}\pi$ at an Incident π^--Meson Momentum of 3.25 BeV/c—V. V. Vladimirskiĭ, V. K. Grigor'ev,

TROSTINA, K. A.
A. P. Grishin, I. A. Erofeev, L. V. Il'kov, G. D. Tikhomirov, K. A. Trostina, and F. M. Filler. 8, 190 (1969) [8, 331 (1969)]

TSEREN, Ch.
Scattering of Pions by an Aligned Deuteron and Deuteron Structure—Ch. Tseren. 8, 528 (1969) [8, 909 (1969)]

Polarization Effects in the Elastic Nd-scattering in the Glauber Approximation—Ch. Tseren. 8, 710 (1969) [8, 1227 (1969)]

TSUKERMAN, I. S.
Odd-T Spin Correlations in Leptonic Decays of Baryons—V. V. Solov'ev and I. S. Tsukerman. 8, 299 (1969) [8, 513 (1969)]

TSVETKOV, V. P.
Radiative Corrections to Neutrino Annihilation of a Lepton-antilepton Pair—V. P. Tsvetkov and B. K. Kerimov. 8, 679 (1969) [8, 1171 (1969)]

TUMANOV, G. K.
Cross Section for Backward Elastic pd Scattering in the Energy Region 1-3.5 BeV—Yu. D. Bayukov, N. G. Birger, V. S. Borisov, G. K. Bysheva, L. S. Vorob'ev, L. L. Gol'din, L. N. Kondrat'ev, M. M. Korotkov, G. A. Leskin, Z. S. Sidorenko, L. I. Sokolov, G. K. Tumanov, V. B. Fedorov, and V. D. Khovanskiĭ. 8, 199 (1969) [8, 348 (1969)]

TUPULOV, B. A.
Optical Anisotropy of Isomers in the Region of Transuranium Elements—A. M. Baldin, S. F. Semenko, and B. A. Tupulov. 8, 187 (1969) [8, 326 (1969)]

TUROVTSEV, V. V.
Peripheral Model of the Direct Nuclear Reactions—I. Borbeĭ, É. I. Dolinskiĭ, and V. V. Turovtsev. 8, 287 (1969) [8, 492 (1969)]

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VINNAY, I.
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Cross Section for Backward Elastic pd Scattering in the Energy Region 1-3.5 BeV—Yu. D. Bayukov, N. G. Birger, V. S. Borisov, G. K. Bysheva, L. S. Vorob'ev, L. L. Gol'din, L. N. Kondrat'ev, M. M. Korotkov, G. A. Leskin, Z. S. Sidorenko, L. I. Sokolov, G. K. Tumanov, V. B. Fedorov, and V. D. Khovanskiĭ. 8, 199 (1969) [8, 348 (1969)]

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ZLATANOV, Z. M.
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Influence of the Parameters of the Optical Model on a Channel Analysis of Neutron Fission of Nuclei—S. B. Ermagambetov, V. E. Kolesov, V. G. Nesterov, G. N. Smirenkin, and A. S. Tishin. 8, 409 (1969) [8, 704 (1969)]

GENERAL THEORETICAL PROBLEMS (Quantum Mechanics, Field Theory, Relativity, Astrophysics, Some Mathematical Problems)

Nonlinear Fusion Equations—A. Kh. Bas'yuni and D. F. Kurdgelaidze. 8, 87 (1969) [8, 154 (1969)]

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Topological Characteristics in the Theory of Angular Momenta—L. A. Shelepin. 8, 481 (1969) [8, 827 (1969)]

Investigation of the $Te^{116} \rightarrow Sb^{116} \rightarrow Sn^{116}$ Decay Chain—B. G. Kiselev and V. R. Burmistrov. 8, 613 (1969) [8, 1057 (1969)]

Decay of Co^{62} Isomers—B. G. Kiselev, V. N. Levkovskiĭ, and I. V. Kazachevskiĭ. 8, 617 (1969) [8, 1063 (1969)]

Cross Section for Absorption of γ Rays by Sulfur Nuclei in the Region of the Giant Dipole Resonance—B. S. Dolbilkin, A. I. Isakov, V. I. Korin, L. E. Lazareva, and F. A. Nikolaev. 8, 626 (1969) [8, 1080 (1969)]

Small-angle Scattering of 4-MeV Neutrons by the Nuclei Cu, In, Sn, Pb, Bi, and U—G. V. Gorlov, N. S. Lebedeva, and V. M. Morozov. 8, 630 (1969) [8, 1086 (1969)

Isospin Dependence of the Nuclear Potential—D. L. Tolchenkov. 8, 636 (1969) [8, 1096 (1969)]

Spectroscopic Factors of 2p Transitions in the Reaction (d, p) on Nuclei of Medium Atomic Weight—K. A. Gridnev, K. I. Zherebtsova, V. A. Komarov, L. V. Krasnov, V. F. Litvin, and Yu. A. Nemilov. 8, 639 (1969) [8, 1101 (1969)]

Radii of the Charge and Mass Distributions in Nuclei—N. G. Afanas'ev, N. G. Shevchenko, G. A. Savitskiĭ, I. S. Gul'karov, and V. M. Khavastunov. 8, 646 (1969) [8, 1112 (1969)]

Residual Interactions of Particles in the Nucleus—I. M. Band, V. N. Guman, L. A. Sliv, and Yu. I. Kharitonov. 8, 650 (1969) [8, 1118 (1969)]

Electromagnetic Form Factors of H^3 and He^3—A. M. Badalyan. 8, 656 (1969) [8, 1128 (1969)]

Influence of Discrete Structure of Single-particle Spectrum on the Thermodynamic Functions of Nuclei—A. V. Ignatyuk and Yu. N. Shubin. 8, 660 (1969) [8, 1135 (1969)]

Diffraction Theory of Stripping Reactions—A. V. Shebeko and E. V. Inopin. 8, 664 (1969) [8, 1142 (1969)]

The Effect of Deuteron Structure on Inelastic Diffraction Scattering—Yu. A. Berezhnoĭ and M. V. Evlanov. 8, 669 (1969) [8, 1151 (1969)]

Weak Interactions in Three-nucleon Systems—A. N. Moskalev. 8, 672 (1969) [8, 1156 (1969)]

Radiative Corrections to Neutrino Annihilation of a Lepton-antilepton Pair—V. P. Tsvetkov and B. K. Kerimov. 8, 679 (1969) [8, 1171 (1969)]

Double Bremsstrahlung in Electron-electron Collisions; the Hard End of the Spectrum—V. N. Baĭer, V. M. Galitskiĭ, V. S. Fadin and V. A. Khoze. 8, 681 (1969) [8, 1174 (1969)]

Phenomenological Analysis of Charged Pion Photoproduction from Nucleons in the Near-threshold Region—M. I. Adamovich, V. G. Larionova, S. P. Kharlamov and F. R. Yagudina. 8, 685 (1969) [8, 1181 (1969)]

Observable Quantities in Bremsstrahlung in the Low Approximation—A. V. Tarasov. 8, 691 (1969) [8, 1191 (1969)]

Production of ρ Mesons in πN Collisions and the Hypothesis of ρ Meson Coupling to the Conserved Current—N. N. Achasov and L. M. Samkov. 8, 696 (1969) [8, 1201 (1969)]

The Decays $A_1 \to \pi\gamma$ and $\pi \to e\nu\gamma$ and Current Algebra—V. S. Berezinskiĭ. 8, 700 (1969) [8, 1208 (1969)]

Quasistable Pomeranchuk Pole and Diffraction Scattering at Ultrahigh Energies—V. N. Gribov and A. A. Migdal. 8, 703 (1969) [8, 1213 (1969)]

Polarization Effects in the Elastic Nd-scattering in the Glauber Approximation—Ch. Tseren. 8, 710 (1969) [8, 1227 (1969)]

Elastic Photoproduction of π^0 Mesons from He^4—V. N. Gur'ev. 8, 713 (1969) [8, 1232 (1969)]

Interference Phenomena in $X \to \pi\rho$ Decays and Determination of Quantum Numbers of the A_2 Meson—M. S. Dubovikov and I. M. Narodetskiĭ. 8, 716 (1969) [8, 1236 (1969)]

Nonperturbative Description of the Weak Interaction of Leptons—M. A. Livshitz. 8, 720 (1969) [8, 1245 (1969)]

Deser-Gilbert-Sudarshan Spectral Representation and Matrix Elements of the Equal-time Current Commutators in Perturbation Theory—N. I. Usyukina. 8, 725 (1969) [8, 1253 (1969)]

Lower Bound of the Energy of a System of Interacting Particles in the Framework of Schrödinger's Equation—O. Ya. Savchenko. 8, 728 (1969) [8, 1259 (1969)]

The Dynamical Symmetry of a Relativistic Charged Particle in a Constant Magnetic Field—I. A. Malkin and V. I. Man'ko. 8, 731 (1969) [8, 1264 (1969)]

Two-dimensional Expansions of Relativistic Amplitudes, Regge Trajectories and Daughter Poles—P. Winternitz, Ya. A. Smorodinskiĭ, and M. B. Sheftel'. 8, 485 (1969) [8, 833 (1969)]

NUCLEAR FISSION. NUCLEAR FUSION (Experiment)

Long-range Particles with Z>2 in Ternary Fission of U^{235} by Thermal Neutrons—V. N. Andreev, V. G. Nedopekin, and V. I. Rogov. 8, 22 (1969) [8, 38 (1969)]

Multiparameter Study of the Anisotropy of γ-Ray Emission in Fission of U^{235}—O. I. Ivanov, Yu. A. Kushnir and G. N. Smirenkin. 8, 29, (1969) [8, 50, (1969)]

Energy and Mass Distribution of Fragments from Fission of U^{235} by Monoenergetic Neutrons from 0 to 15.5 MeV—P. P. D'yachenko, B. D. Kuz'minov, and M. Z. Tarasko. 8, 165 (1969) [8, 286 (1969)]

Anisotropy of γ Radiation in Slow-neutron Fission of U^{235}, as a Function of Fragment Combined Kinetic Energy and Mass Ratio—G. V. Val'skiĭ, G. A. Petrov, and Yu. S. Pleva. 8, 171 (1969) [8, 297 (1969)]

Measurement of the Relative Probability of Ternary Fission in U^{233}, U^{235}, U^{238}, and Th^{232}—L. Nagy, T. Nagy, and I. Vinnay. 8, 257 (1969) [8, 443 (1969)]

Observation of Isotopes of Po and At Among Fission Fragments from Bombardment of U^{238} By Ne^{20} and Ar^{40} Ions—I. V. Kuznetsov, N. S. Mal'tseva, Yu. Ts. Oganesyan, A. M. Sukhov, and V. A. Shchegolev. 8, 260 (1969) [8, 448 (1969)]

Energy Distribution of α Particles Formed in Thermal-Neutron Fission of Pu^{241} and Am^{241}—Z. I. Solov'eva. 8, 264 (1969) [8, 454 (1969)]

Fragment-mass Distribution from Heavy-ion Fission of Bismuth and Uranium—S. A. Karamyan, F. Normuratov, Yu. Ts. Oganesyan, Yu. E. Penionzhkevich, B. I. Pustyl'nik, and G. N. Flerov. 8, 401 (1969) [8, 690 (1969)]

Radiochemical Investigation of Th^{229} Fission by Slow Neutrons—N. I. Borisova, R. A. Zen'kova, B. V. Kurchatov, L. N. Morozov, V. I. Novgorodtseva, V. A. Pchelin, L. V. Chistyakov, and V. M. Shubko. 8, 404 (1969) [8, 695 (1969)]

Influence of the Parameters of the Optical Model on a Channel Analysis of Neutron Fission of Nuclei—S. B. Ermagambetov, V. E. Kolesov, V. G. Nesterov, G. N. Smirenkin, and A. S. Tishin. 8, 409 (1969) [8, 704 (1969)]

Fusion

Investigation of (d, p) and (d, t) Reactions Leading to Spontaneously Fissile Isomeric States—S. Bjornholm, I. Borggreen, Yu. P. Gangrskiĭ, and G. Sletten. 8, 267 (1969) [8, 459 (1969)]

NUCLEAR REACTIONS (Experiment) (Classification Based on Primary Particles)

Reactions and Scattering by Nuclei at High Energies

Cross Section for Backward Elastic pd Scattering in the Energy Region 1-3.5 BeV—Yu. D. Bayukov, N. G. Birger, V. S. Borisov, G. K. Bysheva, L. S. Vorob'ev, L. L.

Reactions Involving d, t, He^3, and He^4

Investigation of Anomalies in Elastic Scattering of 136.-MeV Deuterons by Nuclei in the Region N = 50—I. N. Korostova, L. S. Sokolov, V. V. Tokarevskiĭ, I. P. Chernov, and A. A. Yatis. 8, 6 (1969) [8, 10 (1969)]

Neutron Polarization in (d, n) Reactions in Medium-Mass Nuclei—I. I. Levintov, V. V. Okorokov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 8 (1969) [8, 14 (1969)]

Investigation of Two-stage Channels of the Reaction $(\alpha, 2\alpha)$ on Li Isotopes—V. K. Dolinov. 8, 15 (1969) [8, 26 (1969)]

The Reaction $C^{13}(d, \alpha)B^{11}$ with 6.3-MeV Deuterons—A. E. Denisov, R. P. Kolalis V. Sadkovskiĭ, and E. D. Teterin. 8, 153 (1969) [8, 265 (1969)]

Investigation of the Reaction $D(d, p)H^3$ with a Polarized Deuteron Beam—B. P. Ad'yasevich, V. G. Antonenko, D. A. Kuznetsov, Yu. P. Polunin, and D. E. Fomenko. 8, 154 (1969) [8, 267 (1969)]

Investigation of the $F^{19}(d,\alpha)$ Reaction in the Energy Range 2.4—3.95 MeV—I. I. Zalyuboyskiĭ, A. P. Lobkovskiĭ, O. F. Nemets, and A. Z. Melenevskiĭ. 8, 384 (1969) [8, 663 (1969)]

The Reactions $Ni^{58, 60, 62, 64}(d,n)Cu^{59, 61, 63, 65}$ and $Zn^{64, 66, 68}(d,n)Ga^{65, 67, 69}$—V. V. Okorokov, V. P. Bochin, V. S. Romanov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 387 (1969) [8, 668 (1969)]

Excitation of Multipole Collective States of the Ni and Zn Isotopes with an Analysis Based on the Method of Complex Angular Momentum—V. Yu. Gonchar, K. W. Zheltonog, G. N. Ivanov, and A. V. Yushkov. 8, 393 (1969) [8, 678 (1969)]

Particle-hole Configurations of the Even-even Nuclei Ni^{60}, Zn^{64}, and Zn^{66}—V. V. Okorokov, V. M. Serezhin, V. A. Smotryaev, D. L. Tolchenkov, I. S. Trostin, and Yu. N. Cheblukov. 8, 505 (1969) [8, 869 (1969)]

Reactions Involving γ Rays and Electrons

Elastic and Inelastic Scattering of High Energy Electrons by Si^{28} Nuclei—G. A. Savitskiĭ, N. G. Afanas'ev, I. S. Gul'karov, V. D. Kovalev, A. S. Omelaenko, V. M. Khvastunov, and N. G. Shevchenko. 8, 376 (1969) [8, 648 (1969)]

Angular Distribution of Photoprotons From the Reaction $O^{16}(\gamma, p)N^{15}$—P. M. Tutakin. 8, 383 (1969) [8, 661 (1969)]

The Reaction $B^{10}(\gamma,p)Be^9$—A. Kh. Shardanov and B. A. Yur'ev. 8, 245 (1969) [8, 424 (1969)]

Inelastic Electromagnetic Form Factors of the C^{12} Nucleus in the Continuum Region—S. V. Dementiĭ, N. G. Afanas'ev, I. M. Arkatov, V. G. Vlasenko, V. A. Gol'dshteĭn, and E. L. Kuplennikov. 8, 248 (1969) [8, 429 (1969)]

Asymmetry of Photoneutron Angular Distributions—A. I. Lepestkin. 8, 251 (1969) [8, 433 (1969)]

Cross Section for Absorption of γ Rays by Sulfur Nuclei in the Region of the Giant Dipole Resonance—B. S. Dolbilkin, A. I. Isakov, V. I. Korin, L. E. Lazareva, and F. A. Nikolaev. 8, 626 (1969) [8, 1080 (1969)]

Reactions Involving Heavy Nuclei and Multiply-charged Ions

Fragment-mass Distribution from Heavy-ion Fission of Bismuth and Uranium—S. A. Karamyan, F. Normuratov, Yu. Ts. Oganesyan, Yu. E. Penionzhkevich, B. I. Pustyl'nik, and G. N. Flerov. 8, 401 (1969) [8, 690 (1969)]

Reactions Involving Mesons and Hyperons

The Reaction $C^{12}(\pi^+, 2p)d2\alpha$ With 117-MeV π^+ Mesons—V. F. Kosmach, A. A. Kotov, and V. I. Ostroumov. 8, 18 (1969) [8, 32 (1969)]

$(\pi^+, 2p)$ Reaction on Light Nuclei of the 1p Shell—N. F. Golovanova and N. S. Zelenskaya. 8, 158 (1969) [8, 275 (1969)]

The C^{12} (π, π') 3α Reaction at 117 MeV—A. G. Banin, V. F. Kosmach, and V. I. Ostroumov. 8, 399 (1969) [8, 688 (1969)]

Reactions Involving Neutrons

Cross Sections of the (n, p) and (n, α) Reactions at 14.8 MeV—B. Levkovskiĭ, G. E. Kovel'skaya, G. P. Vinitskaya, V. M. Stepanov, and V. V. Sokol'skiĭ. 8, 4 (1969) [8, 7 (1969)]

On the Anomalous Forward Scattering of 14-MeV Neutrons by Uranium—A. Ádám, F. Deak, L. Jéki, A. Kiss, Z. Kövessy, G. Palla, and P. Hrasko. 8, 255 (1969) [8, 439 (1969)]

Small-angle Scattering of 4-MeV Neutrons by the Nuclei Cu, In, Sn, Pb, Bi, and U—G. V. Gorlov, N. S. Lebedeva, and V. M. Morozov. 8, 630 (1969) [8, 1086 (1969)

Reactions Involving Protons and Antiprotons

Isospin Dependence of the Nuclear Potential—D. L. Tolchenkov. 8, 636 (1969) [8, 1096 (1969)]

Investigation of (d, p) and (d, t) Reactions Leading to Spontaneously Fissile Isomeric States—S. Bjornholm, I. Borggreen, Yu. P. Gangrskiĭ, and G. Sletten. 8, 267 (1969) [8, 459 (1969)]

Polarization of Photons Elastically Scattered by Carbon—R. P. Slabospitskiĭ, G. B. Andreev, I. D. Loptako, V. I. Boroviev, V. A. Lutsik, and A. Ya. Taranov. 8, 502 (1969) [8, 865 (1969)]

Spectroscopic Factors of 2p Transitions in the Reaction (d, p) on Nuclei of Medium Atomic Weight—K. A. Gridnev, K. I. Zherebtsova, V. A. Komarov, L. V. Krasnov, V. F. Litvin, and Yu. A. Nemilov. 8, 639 (1969) [8, 1101 (1969)]

NUCLEAR STRUCTURE. PROPERTIES OF NUCLEAR MATTER (Theory) (Nuclear Models, Many-particle Theory, Quantum Characteristics of Nuclei)

Penetrability of the Nuclear Potential Barrier with Diffuse Strong-interaction Potential of the Woods-Saxon Type—F. P. Denisov and A. M. Terent'ev. 8, 33 (1969) [8, 56 (1969)]

Scattering of Neutrons by Chemically Bound Protons—A. I. Baz', V. F. Demin, I. I. Kuz'min, and Yu. K. Rogov. 8, 37 (1969) [8, 65 (1969)]

N-forbidden β Transitions in Deformed Nuclei in the Approximation of a Finite Potential with Diffuse Edge—F. A. Gareev, B. N. Kalinkin, N. I. Pyatov, and M. I. Cherneĭ. 8, 176 (1969) [8, 305 (1969)]

Binding Energy and Wave Function of H^3 and He^3. Non-existence of the Tri-neutron and Excited States of H^3—A. M. Badalyan, E. S. Gal'pern, and V. N. Lyakhovitskiĭ. 8, 180 (1969) [8, 313 (1969)]

Spin Mixing in the Input Channels of the Reaction P^{31} (p, α_0) Si^{28}—K. V. Karadzhev, V. I. Man'ko, and F. E. Chukreev. 8, 184 (1969) [8, 321 (1969)]

Optical Anisotropy of Isomers in the Region of Transuranium Elements—A. M. Baldin, S. F. Semenko, and B. A. Tupulov. 8, 187 (1969) [8, 326 (1969)]

The Three Body Problem. The K-harmonics Method in Problems Involving the Continuum Spectrum—B. N. Zakhar'ev, V. V. Pustovalov, and V. D. Éfros. 8, 234 (1969) [8, 406 (1969)]

Magnetic-Dipole Moments of Nuclei in the Approximation of Wigner Supermultiplets—A. K. Petrauskas and V. V. Vanagas. 8, 270 (1969) [8, 463 (1969)]

Factorization of Many-Particle Fractional Parentage Coefficients—Yu. F. Smirnov, K. V. Shitikova, and S. H. El-Samarai. 8, 275 (1969) [8, 470 (1969)]

Charge of the Quadrupole Moment of Deformed Nuclei Under the Influence of Rotation—Yu. T. Grin' and I. M. Pavlichenkov. 8, 279 (1969) [8, 477 (1969)]

Polarizability and Elastic Scattering of α Particles—S. G. Kadmenskiĭ. 8, 284 (1969) [8, 486 (1969)]

Peripheral Model of the Direct Nuclear Reactions—I. Borbeĭ, É. I. Dolinskiĭ, and V. V. Turovtsev. 8, 287 (1969) [8, 492 (1969)]

On a Method of Calculating Slater Integrals—É. A. Rudak. 8, 415 (1969) [8, 713 (1969)]

Concerning the Stability of Superheavy Nuclei—Yu. A. Muzychka, V. V. Pashkevich, and V. M. Strutinskiĭ. 8, 417 (1969) [8, 716 (1969)]

The Accuracy of Approximate Methods in the Superfluid Nuclear Model—P. Boschan, A. Pawlikowski, and W. Rybarska. 8, 420 (1969) [8, 721 (1969)]

The Electromagnetic Radii of Tritium—A. N. Moskalev. 8, 423 (1969) [8, 727 (1969)]

Fine Structure of Analog Resonances—D. F. Zaretskiĭ and M. G. Urin. 8, 425 (1969) [8, 731 (1969)]

Polarization in the Optical Model for Antinucleon-nucleon Collisions—M. I. Turovskiĭ. 8, 429 (1969) [8, 738 (1969)]

Application of the Translation Invariant Shell Model to the Computation of the Spectra of the Nuclei with A = 4 and 5—G. Sh. Gogsadze and T. I. Kopaleĭshvili. 8, 509 (1969) [8, 875 (1969)]

Equilibrium Deformations of Nuclei in the Region 50 < Z < 82 and 50 < N < 82—D. A. Arsen'ev, L. A. Malov, V. V. Pashkevich, A. Sobiczewski, and V. G. Solov'ev. 8, 514 (1969) [8, 883 (1969)]

On the Theory of the Photonuclear Reaction Leading to the Emission of a Nucleon Pair—P. I. Dzhibuti. 8, 519 (1969) [8, 892 (1969)]

Polarization Effects in Direct Nuclear Reactions Producing Three Particles—V. M. Kolybasov. 8, 522 (1969) [8, 898 (1969)]

Scattering of Pions by an Aligned Deuteron and Deuteron Structure—Ch. Tseren. 8, 528 (1969) [8, 909 (1969)]

Phenomenological Analysis of Elastic Pion–deuteron Scattering—Doan Nhuong. 8, 531 (1969) [8, 914 (1969)]

Contribution to the Theory of Radiative Capture and Scattering of Slow Pions by Nuclei—A. I. Akhiezer and I. A. Akhiezer. 8, 598 (1969) [8, 1029 (1969)]

Isospin Dependence of the Nuclear Potential—D. L. Tolchenkov. 8, 636 (1969) [8, 1096 (1969)]

Spectroscopic Factors of 2p Transitions in the Reaction (d, p) on Nuclei of Medium Atomic Weight—K. A. Gridnev, K. I. Zherebtsova, V. A. Komarov, L. V. Krasnov, V. F. Litvin, and Yu. A. Nemilov. 8, 639 (1969) [8, 1101 (1969)]

Radii of the Charge and Mass Distributions in Nuclei—N. G. Afanas'ev, N. G. Shevchenko, G. A. Savitskiĭ, I. S. Gul'karov, and V. M. Khavastunov. 8, 646 (1969) [8, 1112 (1969)]

Residual Interactions of Particles in the Nucleus—I. M. Band, V. N. Guman, L. A. Sliv, and Yu. I. Kharitonov. 8, 650 (1969) [8, 1118 (1969)]

Electromagnetic Form Factors of H^3 and He^3—A. M. Badalyan. 8, 656 (1969) [8, 1128 (1969)]

Influence of Discrete Structure of Single-particle Spectrum on the Thermodynamic Functions of Nuclei—A. V. Ignatyuk and Yu. N. Shubin. 8, 660 (1969) [8, 1135 (1969)]

Diffraction Theory of Stripping Reactions—A. V. Shebeko and E. V. Inopin. 8, 664 (1969) [8, 1142 (1969)]

The Effect of Deuteron Structure on Inelastic Diffraction Scattering—Yu. A. Berezhnoĭ and M. V. Evlanov. 8, 669 (1969) [8, 1151 (1969)]

Polarization Effects in the Elastic Nd-scattering in the Glauber Approximation—Ch. Tseren. 8, 710 (1969) [8, 1227 (1969)]

Elastic Photoproduction of π^0 Mesons from He^4—V. N. Gur'ev. 8, 713 (1969) [8, 1232 (1969)]

Lower Bound of the Energy of a System of Interacting Particles in the Framework of Schrödinger's Equation—O. Ya. Savchenko. 8, 728 (1969) [8, 1259 (1969)]

PROBLEMS IN THE THEORY OF SCATTERING AND REACTIONS

On the Calculation of the Probabilities of the Scattering of Polarized Particles with Spin ½—I. V. Dogyust and Yu. P. Stepanovskiĭ. 8, 219 (1969) [8, 382 (1969)]

Interference Phenomena in $X \to \pi\rho$ Decays and Determination of Quantum Numbers of the A_2 Meson—M. S. Dubovikov and I. M. Narodetskiĭ. 8, 716 (1969) [8, 1236 (1969)]

PROCEDURES. ACCELERATORS

Use of Deuterated Scintillators for Analysis of Fast-neutron Spectra—B. A. Benetskiĭ, E. M. Burymov and I. M. Frank. 8, 534 (1969) [8, 920 (1969)]

The Laser as a Source and Detector of Gravitons—V. De Sabbata, D. Boccaletti and C. Gualdi. 8, 537 (1969) [8, 924 (1969)]

PROPERTIES OF ELEMENTARY PARTICLES. FUNDAMENTAL CONSERVATION LAWS (Experiment)

Search for the Violation of Time Reversal Invariance in Beta Decay of Polarized Neutrons—B. G. Erozolimskiĭ, L. I. Bondarenko, Yu. A. Mostovoĭ, B. A. Obinyakov, V. I. Zakharova, and V. A. Titov. 8, 98 (1969) [8, 176 (1969)]

On the Observation of the Non-conservation of Time Parity with the Help of the Mössbauer Effect—N. A. Burgov. 8, 101 (1969) [8, 182 (1969)]

Verification of C-invariance in Strong and Electromagnetic Interactions of Elementary Particles—G. Finocchiaro. 8, 105 (1969) [8, 188 (1969)]

PROPERTIES OF NUCLEI AND NUCLEAR SPECTROSCOPY (Experiment)

Decays

Investigation of the Decay of Tm^{166} ($T_{1/2}$ = 7.7 hr)—Z. N. Miminoshvili and A. A. Sorokin. 8, 125 (1969) [8, 217 (1969)]

Investigation of the α-radioactivity of Sm Isotopes—V. A. Korolev, G. D. Alkhazov, A. A. Vorobe'v, A. I. Egorov, and L. M. Vasil'eva. 8, 131 (1969) [8, 227 (1969)]

Concerning Ω^--Hyperon Decays—V. Kopeliovich. 8, 306 (1969) [8, 524 (1969)]

The Decay Scheme of Er^{158}—A. S. Abdurazakov, K. Ya. Gromov, Zh. T. Zhelev, V. G. Kalinnikov, Ya. Liptak, U. K. Nazarov, and Yu. Urbanets. 8, 367 (1969) [8, 633 (1969)]

Investigation of the $Te^{116} \to Sb^{116} \to Sn^{116}$ Decay Chain—B. G. Kiselev and V. R. Burmistrov. 8, 613 (1969) [8, 1057 (1969)]

Decay of Co^{62} Isomers—B. G. Kiselev, V. N. Levkovskiĭ, and I. V. Kazachevskiĭ. 8, 617 (1969) [8, 1063 (1969)]

Energy Levels and Quantum Characteristics of Nuclei

Relative Internal Conversion Coefficients of the Gamma Transitions in Hf^{180}—V. S. Gvozdev, V. N. Grigor'ev, and Yu. V. Sergeenkov. 8, 1 (1969) [8, 3 (1969)]

Investigation of Excited Ca^{148} States Above 2.5 MeV by Means of Pair Conversion Electrons—B. N. Belyaev, S. S. Vasilenko and V. S. Gvozdev. 8, 135 (1969) [8, 235 (1969)]

Study of the Radiation of $_{34}Se^{73}_{39}$—M. P. Akhmed, K. A Baskova, S. S. Vasil'ev, and L. Ya. Shavtvalov. 8, 138 (1969) [8, 240 (1969)]

Spectroscopy of the Nucleus In^{117}-R. B. Begzhanov, M. Kh. Khodzhaev, and Sh. Sh. Shapirov. 8, 142 (1969) [8, 247 (1969)]

Isotope Masses and Nuclear Binding Energies in the Region from Cs to Eu—R. A. Demirkhanov, V. V. Dorokhov, and M. I. Dzkuya. 8, 147, (1969) [8, 255 (1969)]

Lifetime of the 242.8-keV Level in Er^{166}—G. T. Adylov, R. Babadzhanov, A. S. Kuchma, and V. A. Morozov. 8, 241 (1969) [8, 417 (1969)]

Neutron Resonances of Nd Isotopes—E. N. Karzhavina, Nguyen Nguyen Fong, A. B. Popov, and A. I. Taskaev. 8, 371 (1969) [8, 639 (1969)]

Properties of the Isotopes $Ra^{214-216}$—Yu. V. Labanov and V. A. Druin. 8, 493 (1969) [8, 849 (1969)]

Neutron Resonance Parameters of Separated Antimony Isotopes—G. P. Muradyan, Yu. V. Adamchuk, and Yu. G. Shchepkin. 8, 495 (1969) [8, 852 (1969)]

Spectra of γ Rays Produced Upon Capture of Thermal Neutrons by Nd Isotopes—L. V. Groshev, V. N. Dvoretskiĭ, A. M. Demidov, and A. S. Rakhimov. 8, 619 (1969) [8, 1067 (1969)]

STRONG INTERACTION (Experiment)

Search for Baryon NKπ Resonance with Strangeness S = +1 in the Reaction $\pi^- p \to NK\bar{K}\pi$ at an Incident π^--Meson Momentum of 3.25 BeV/c—V. V. Vladimirskiĭ, V. K. Grigor'ev, A. P. Grishin, I. A. Erofeev, L. V. Il'kov, G. D. Tikhomirov, K. A. Trostina, and F. M. Filler. 8, 190 (1969) [8, 331 (1969)]

Study of the Quasi Two-particle Processes $\pi^- p \to \rho^0 N^{*0}$ (1238), $\pi^- p \to \omega^0 N^{*0}$ (1238), and $\pi^- p \to pA_2^-$ at a Momentum of 3.25 BeV/c —I. A. Vetlitskiĭ, V. M. Guzhavin, A. B. Kaĭdalov, B. A. Karnakov, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, V. T. Smolyankin, and A. P. Sokolov. 8, 192 (1969) [8, 335 (1969)]

Meson and Baryon Resonances

Investigation of Spin and Parity of the A_2 Meson—V. V. Vladimirskiĭ, O. N. Vasil'eva, G. S. Lomkatsi, and G. D. Tikhomirov. 8, 295 (1969) [8, 507 (1969)]

Study of the Reaction $\pi^- p \to \Delta^{++}(1236)\pi^-\pi^-$ at 3.25 BeV/c—I. A. Vetlitskiĭ, V. M. Guzhavin, G. K. Kliger, V. Z. Kolganov, A. V. Lebedev, G. S. Lomkatsi, I. M. Narodetskiĭ, V. T. Smolyankin, and A. P. Sokolov. 8, 433 (1969) [8, 743 (1969)]

Nonresonant Interactions

Phases of ππ Scattering in the States with T = 0 and T = 2 —G. A. Leksin. 8, 92 (1969) [8, 165 (1969)]

Summary Data on Elastic pp and pd Scattering at Small Angles and the Real Part of the pn-scattering Amplitude in Energy Interval 1-10 BeV—N. Kalkhazhav, P. A. Devinski, V. I. Zayachki, Z. M. Zlatanov, L. S. Zolin, L. F. Kirillova, Z. Korbel, P. K. Markov, Ngo Kuang Zui, Nguyen Din Ty, V. A. Nikitin, L. Rob, V. A. Sviridov, D. Tuvdendorzh, L. G. Khristov, Kh. M. Chernev, Chyong Byen, and M. G. Shafranova. 8, 196 (1969) [8, 342 (1969)]

Cross Section for Backward Elastic pd Scattering in the Energy Region 1-3.5 BeV—Yu. D. Bayukov, N. G. Birger, V. S. Borisov, G. K. Bysheva, L. S. Vorob'ev, L. L. Proton Neutron Interactions in the 20 GeV Energy Region—Zh. S. Takibaev, É. G. Boos and R. A. Tursunov. 8, 203 (1969) [8, 354 (1969)]

Determination of the Sign of the $\pi^+\pi^-$ Scattering Amplitude—A. V. Aref'ev, Yu. D. Bayukov, Yu. M. Zaĭtsev, V. A. Kuleshov, and G. A. Leksin. 8, 365 (1969) [8, 631 (1969)]

Study of the Reaction $\pi^- p \to \pi^-\gamma\gamma$ at 340 MeV—T. D. Blokhintseva, A. V. Kravtsov and S. G. Sherman. 8, 539 (1969) [8, 928 (1969)]

STRONG INTERACTIONS (Theory)

Dispersion Sum Rules and the Electromagnetic Properties of High Resonances—I. G. Aznauryan and L. D. Solov'ev. 8, 73 (1969) [8, 129 (1969)]

Photoproduction of Mesons on Nucleons, Regge Poles, and SU(3) Symmetry—M. P. Rekalo. 8, 78 (1969) [8, 138 (1969)]

ππ Interaction in States with I = 2—L. V. Fil'kov. 8, 84 (1969) [8, 149 (1969)]

Nonlinear Fusion Equations—A. Kh. Bas'yuni and D. F. Kurdgelaidze. 8, 87 (1969) [8, 154 (1969)]

A Geometric Test of Isotopic Invariance of Elementary Particles—V. G. Grishin and M. I. Podgoretskiĭ. 8, 217 (1969) [8, 379 (1969)]

Vector Dominance Model and Sum Rule for γp Interaction at High Energies—S. B. Gerasimov and V. A. Serdyutskiĭ. 8, 323 (1969) [8, 554 (1969)]

On the Asymptotic Behavior of the Amplitudes for Inelastic Binary Processes—I. I. Roĭzen. 8, 332 (1969) [8, 571 (1969)]

Vector Mesons and Scattering Lengths for Various Hadron Elastic Interaction Processes—M. P. Rekalo. 8, 334 (1969) [8, 575 (1969)]

Analysis of the Reactions $\pi + N \to \pi + \pi + N$ at T_π = 350-600 MeV. Determination of the Contribution of the Triangular Diagram and Estimate of the $\pi\pi^-$ Scattering Amplitude at Low Energies—V. V. Anisovich, E. M. Levin, A. K. Likhoded, and Yu. G. Stroganov. 8, 339 (1969) [8, 583 (1969)]

Determination of the Sign of the $\pi^+\pi^-$ Scattering Amplitude—A. V. Aref'ev, Yu. D. Bayukov, Yu. M. Zaĭtsev, V. A. Kuleshov, and G. A. Leksin. 8, 365 (1969) [8, 631 (1969)]

Photoproduction of Mesons by Polarized Photons and the Primakoff Effect—L. I. Lapidus and M. M. Musakhanov. 8, 462 (1969) [8, 793 (1969)]

Polarization of Particles Produced as a Result of "Truly Inelastic" Collisions—K. G. Boreskov. 8, 464 (1969) [8, 796 (1969)]

Diffraction Scattering of Hadrons at High Energies and Quark Model of Elementary Particle Interactions—A. I. Akhiezer and M. P. Rekalo. 8, 469 (1969) [8, 806 (1969)]

Large Angle Particle Scattering at High Energies—I. V. Andreev and I. M. Dremin. 8, 473 (1969) [8, 814 (1969)]

Threshold Behavior in the Froissart N/D Method—G. N. Chermalykh. 8, 479 (1969) [8, 824 (1969)]

Scattering of Pions by an Aligned Deuteron and Deuteron Structure—Ch. Tseren. 8, 528 (1969) [8, 909 (1969)]

On the Bremsstrahlung Amplitude in Nucleon-nucleon Collisions—A. V. Tarasov. 8, 577 (1969) [8, 992 (1969)]

Photoproduction of Neutral Vector Mesons at High Energies in the Regge-pole Model—L. N. Koval' and S. G. Matinyan. 8, 581 (1969) [8, 999 (1969)]

Properties of the Pomeranchuk Pole and the Branch Cuts Related to it at Low Momentum Transfers—V. N. Gribov and A. A. Migdal. 8, 583 (1969) [8, 1002 (1969)]

Semiphenomenological Analysis of the Scattering Amplitude at High Energies—V. I. Savrin and O. A. Khrustalev. 8, 591 (1969) [8, 1016 (1969)]

Dispersion Sum Rules for Pion-baryon Backward Scattering —G. G. Volkov, V. V. Ezhela and V. S. Zamiralov. 8, 593 (1969) [8, 1020 (1969)]

Contribution to the Theory of Radiative Capture and Scattering of Slow Pions by Nuclei—A. I. Akhiezer and I. A. Akhiezer. 8, 598 (1969) [8, 1029 (1969)]

Possible Decuplet of Baryon Resonances $5/2^+$—P. Gueret and L. Jenkovszky. 8, 605 (1969) [8, 1042 (1969)]

Resonance Solutions of the πN Scattering Equations—V. I. Lend'yel and D. M. Marina. 8, 606 (1969) [8, 1044 (1969)]

Production of ρ Mesons in πN Collisions and the Hypothesis of ρ Meson Coupling to the Conserved Current—N. N. Achasov and L. M. Samkov. 8, 696 (1969) [8, 1201 (1969)]

The Decays $A_1 \to \pi\gamma$ and $\pi \to e\nu\gamma$ and Current Algebra—V. S. Berezinskiĭ. 8, 700 (1969) [8, 1208 (1969)]

Quasistable Pomeranchuk Pole and Diffraction Scattering at Ultrahigh Energies—V. N. Gribov and A. A. Migdal. 8, 703 (1969) [8, 1213 (1969)]

Polarization Effects in the Elastic Nd-scattering in the Glauber Approximation—Ch. Tseren. 8, 710 (1969) [8, 1227 (1969)]

SYMMETRIES (Internal and Spatial)

Possible Experiments in Search of Mirror K^0 Mesons—N. N. Nikolaev and L. B. Okun'. 8, 56 (1969) [8, 99 (1969)]

Search for the Violation of Time Reversal Invariance in Beta Decay of Polarized Neutrons—B. G. Erozolimskiĭ, L. I. Bondarenko, Yu. A. Mostovoĭ, B. A. Obinyakov, V. I. Zakharova, and V. A. Titov. 8, 98 (1969) [8, 176 (1969)]

On the Observation of the Non-conservation of Time Parity with the Help of the Mössbauer Effect—N. A. Burgov. 8, 101 (1969) [8, 182 (1969)]

Verification of C-invariance in Strong and Electromagnetic Interactions of Elementary Particles—G. Finocchiaro. 8, 105 (1969) [8, 188 (1969)]

CP Violation in Weak Radiative Decays—A. T. Filippov. 8, 111 (1969) [8, 197 (1969)]

Models for the Violation of CP Symmetry—M. Veltman. 8, 119 (1969) [8, 209 (1969)]

Possible Decuplet of Baryon Resonances $^3/_2^+$—P. Gueret and L. Jenkovszky. 8, 605 (1969) [8, 1042 (1969)]

ULTRAHIGH ENERGIES. COSMIC RAYS

Proton Neutron Interactions in the 20 GeV Energy Region—Zh. S. Takibaev, É. G. Boos and R. A. Tursunov. 8, 203 (1969) [8, 354 (1969)]

Experiment

Interaction of 21-BeV Protons with Heavy Emulsion Nuclei in a Strong Magnetic Field—A. Azimov, U. G. Gulyamov, N. M. Myalkovskaya, L. N. Svechnikova, L. P. Chernova and G. M. Chernov. 8, 542 (1969) [8, 933 (1969)]

Theory

Fluctuation Mechanism of Emission of High-energy He^4 in Nuclear Spallation Processes—K. Toktarov. 8, 546 (1969) [8, 940 (1969)]

Intensity and Angular Distribution of Muons Underground—Yu. D. Kotov and V. M. Logunov. 8, 437 (1969) [8, 750 (1969)]

WEAK INTERACTIONS (Experiment)

Search for the Violation of Time Reversal Invariance in Beta Decay of Polarized Neutrons—B. G. Erozolimskiĭ, L. I. Bondarenko, Yu. A. Mostovoĭ, B. A. Obinyakov, V. I. Zakharova, and V. A. Titov. 8, 98 (1969) [8, 176 (1969)]

WEAK INTERACTIONS (Theory)

Structure of the Weak Interaction A + N → N + N and SU (6) Symmetry—V. A. Filimonov and B. P. Nikiforov. 8, 40 (1969) [8, 71 (1969)]

On a Renormalizable Theory of Weak Interactions—E. P. Shabalin. 8, 42 (1969) [8, 74 (1969)]

Spin Effects in the Degeneration of K^0 Mesons—L. I. Lapidus 8, 46 (1969) [8, 81 (1969)]

From What Experimental Data Can We Determine the Degree of Violation of the Selection Rule $\Delta T = 1/2$ in the Decay $K \to 3\pi$?—V. V. Anisovich, L. G. Dakhno, and A. K. Likhoded. 8, 52 (1969) [8, 91 (1969)]

Possible Experiments in Search of Mirror K^0 Mesons—N. N. Nikolaev and L. B. Okun'. 8, 56 (1969) [8, 99 (1969)]

On $\Xi \to A\pi\gamma$ Decays—V. I. Zakharov, L. A. Kondratyuk, and L. A. Ponomarev. 8, 60 (1969) [8, 106 (1969)]

CP Violation in Weak Radiative Decays—A. T. Filippov. 8, 111 (1969) [8, 197 (1969)]

Energy and Angular Distributions in Mesonic Decays of Hypernuclei—V. A. Lyul'ka. 8, 206 (1969) [8, 360 (1969)]

Electromagnetic T-odd Correlations in the Decays A → $pe\bar{\nu}$ AN and $\Sigma^- \to ne\bar{\nu}$—V. B. Kopeliovich and A. N. Tverdokhlebov. 8, 212, (1969) [8, 371 (1969)]

Odd-T Spin Correlations in Leptonic Decays of Baryons—V. V. Solov'ev and I. S. Tsukerman. 8, 299 (1969) [8, 513 (1969)]

Consequences of γ_5 Invariance for Decays of Neutral Kaons into Lepton Pairs—É. M. Lipmanov. 8, 310 (1969) [8, 532 (1969)]

Asymptotic Equality of Neutrino-Nucleon and Antineutrino-Nucleon Cross Sections—Nguyen Thi Hong. 8, 312 (1969) [8, 535 (1969)]

Electromagnetic Renormalization of the Vector Part of the ($\nu_e e$) Interaction—V. N. Folomeshkin. 8, 314 (1969) [8, 537 (1969)]

Estimated Upper Bound of Different Hypothetical Electron-proton Interactions, Based on the Energy Balance of the Sun—G. V. Domogatskiĭ. 8, 442 (1969) [8, 759 (1969)]

On the Search for Heavy Leptons—S. S. Gershteĭn and V. N. Folomeshkin. 8, 447 (1969) [8, 768 (1969)]

CP Violation and Tau-decay Spectra—L. F. Vitushkin. 8, 548 (1969) [8, 942 (1969)]

Interference Phenomena in the τ Decay of Neutral K Mesons—V. V. Anisovich and V. M. Shekhter. 8, 552 (1969) [8, 948 (1969)]

Estimates of $K \to \pi e^+ e^-$ Decay Probabilities—V. V. Geĭdt and I. B. Khriplovich. 8, 558 (1969) [8, 960 (1969)]

Photoproduction of W Meson Pairs—V. G. Kompaneets and V. N. Folomeshkin. 8, 561 (1969) [8, 966 (1969)]

Weak-Interaction Effects in Scattering of Electrons and Muons by Protons—G. A. Lobov and E. P. Shabalin. 8, 564 (1969) [8, 971 (1969)]

Radiative Corrections to the Decays A → Nπ and $K_{S,L}^0 \to \pi^+\pi^-$—A. A. Belăvin and I. M. Narodetsky. 8, 568 (1969) [8, 978 (1969)]

The Decay $K_2^0 \to \pi^+\pi^- e^+ e^-$ and the Electromagnetic Radius of the $K_2^0 \to K_1^0$ Transition—V. I. Zakharov, L. A. Kondratyuk, and L. A. Ponomarev. 8, 571 (1969) [8, 983 (1969)]

Weak Interactions in Three-nucleon Systems—A. N. Moskalev. 8, 672 (1969) [8, 1156 (1969)]